

<400> 19111

gacacttcga aactcaagct tctatagaag tccattccta attgtctaca atagcatttt 60

ctctcaatga tctggagaca aagaacgtgg cattgacctg tggtgaaaaa caataagcag 120

cctttgcttt gctcaaagaa aagcttacta aggcacctat tctagctttt gctgactttt 180

ctaaaacctt tgagctagaa tgtgatgcct ctggagtggg agttggagct gtattggtac 240

aagggtggaca ccctattgct tatgttagag aaaaacttta tagtgccacc ctacactacc 300

ccacctatga taaagagctt tatgccttaa taagagctct aaaaacttgg gaacatttac 360

cttgttccaa ggaatttgtc attcataatg atcatcaatc acttagtaca 410

<210> 19112

<211> 250

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19112

ttgcatcttt ttctggaggc actnttgaaa caatatttct ttagatccaa tccccaccta 60

caggtaaaaa aaaagtcaca tgttaactga aaatacacat tttgccggct attaaatgga 120

ctacaagaat agatctacaa aaaaaaaggt aaatatgcta acggctatac tgagtaaccc 180

acaaaaaaca acatgaaata ggttgcagcc atgacaaaaa atcaataaaa ctggataaac 240

tcatatcaca 250

<210> 19113

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19113

ggatctttta ggtttttatc tttaatcttt tatccctgaa cgaactattc aaagttgtaa 60

ttcgaaacttt aattatcttt taattcgctc cttaaagatag atcgccaaat ctgttgctaa 120

ctgcacatta atctgttaaa gatataacag atttatgtgt ccagtatttt cgggcaagat 180

gttctggaca tcgtatccga catcgtggat cctgcagctt caattcttca ttngacattt 240

tatcttgcct tgtgcattgt gcagcccaat ctgattcctt gacataaccg tggacatcat 300

gtgcagcaac tccagctttt cttcattggc taagtgccta tgttttaaca aaattta 357

<210> 19114  
<211> 436  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19114

agctttttcc anaactttgt ttatcctgca caaagcaatc ttgtttggat catgtctaca 60  
gctttgaact tattcccttt tcatgatccc catgttaggt tattaactgt gcttctagac 120  
aggcatgttg aaagaatttc tcggagaatg gtatgtctga ctatgctaca gtttcttaac 180  
tagagggaca ttcttttagca tcaatggatg aaaaactaat tgttgatact ttgtgcagtg 240  
caaccttcca tatgttacta tggtagtgac tgacaatcta cagggtattc tcacttcagt 300  
tctattcaat cgctcagtgt ctaacatagt tcgataggac atgttgactn tgtagccata 360  
ttgcagtttc tgcgttataa aattgtntt gggctctaac ttagttgtta gtgtttaaaa 420  
tttatttttg caatta 436

<210> 19115  
<211> 311  
<212> DNA  
<213> Glycine max  
  
<400> 19115

tcttatccaa agcaattctt ggtgttgaag ctcttcttt cttggcttat tccctaattg 60  
atggtgctc cctctctc ttctccttg ccttcgcgcg catctccatg gtgtaaaatc 120  
accattgaaa gacctcattg aagctcaaaa atccagcctt catggaagct ccacaagcaa 180  
gcttccatca agtggtaatc aaagcacaag agcttcaagt aggtgctcct taaacctccc 240  
attaatgggt tgccttacc tttcttgcac tgggtggttct tcatttttct ccatgtatct 300  
cctcacatgt c 311

<210> 19116  
<211> 405  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations



<400> 19116

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gaagccactt gtccaacaaa gggggatgga tcccaagggtg tgttcaaagt atgtaaagga 120

attacaaaga taatggaaaa tctcaagtgg attgtttgag gactggacgt atgcatggga 180

agtggccgaa ccagtataaa tcgagtgtga aattctctct tcccttattt atntatttta 240

ttgcaatcaa ttgtgtcttg cacgtttaaa gaacattatt aaatcgattg atgcttcttc 300

ttcttcattc taagtctatc atttaaaaga aggttaacag cttgttagtg agaaattatg 360

tgagacttaa ttcaccctcc ctcttaagtt attgagacca cttgt 405

<210> 19117

<211> 126

<212> DNA

<213> Glycine max

<400> 19117

gagagacatt tgggagacgc tgcttaccct gccttcagcc ttagactttc tgggcctgaa 60

cgatgttatt ggacaaaggg atgaactccg atacttttct tatatgggac atgatatatg 120

ctaaaa 126

<210> 19118

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19118

agctnttcgt cttacagaca gcaaaaagtt tatacggata accactcggg tatttcgcc 60

cgtcagcgtg actcaaaagt caatatgaca gatcttgtga ggcggaaga tgacgtaaat 120

ctccgcgtgt caacgggctt gtcggccgcg attgatgaat ggcgcagaag acgacgttag 180

tctctgcgtg ctatcaggct tttcgtctta cagccacaaa aa 222

<210> 19119

<211> 442

<212> DNA

<213> Glycine max

<400> 19119

acacgtggag atttacgtca tcttccgcgc tcacattatc tggcatattg tcttttgagt 60  
cacgctgacg ggcggaaata cccgagtggt tatccgtata aactttttgc tgtctgtaag 120  
acgtaaagcc ttataacacg cagagactaa cgctcgtcttc tacgaccttc gtcaatcgcg 180  
gccgacaagc ccatttaaaa gcggagattt acgtcatctt tcgtgctcac aagatctgtc 240  
atactgactt ttgagtcacg ctgacgggcg gaaatacccg agtggttate cgtataaact 300  
ttttgcattc tgtaagatga aaagcgtgat agcacgcaga gactaacgtc gtcttctgcg 360  
cccttcgtca atcgcgatcg acaagcccgg tggcacgcgg agaattacgt catcttccgc 420  
gtcacaaga tctgtcatatc tg 442

<210> 19120  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 19120  
agcttttact ttaatataag tcctttattc taaggttcat aacacaaatt aaagtgcaaa 60  
gttgggatta cttacttgga ttgcaataag acatgatcaa gaggaagtca tacaagcaga 120  
gagcataatg tgagcatagt gcaaataaat gcaagatgca aaggatgata gtgagaccat 180  
gtttgtaaat gcacgacaga ctactgccta aagcaattaa gccttatttt tggtagtttt 240  
gactgcctcg cttagcgcaa gtcactcgct tagcgagcac tcaaggactt ttaagttttc 300  
agaatacaca ctcacgagct cagc 324

<210> 19121  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19121

ttatcactgg cattgcactt cctgttggtt ccgacaaaact ttattctggc atcactgatg 60  
ggacagttag gatatgggac tgccatactg gtcaatgtgc taaagtcac aatcttggtg 120  
ctgaaggtag ctctttgatc agtgaggggt catggatttt tgttggtctg caaaatgctg 180  
tcaaggtaag ctcttatctg gcattgggtt ggtttgatgt atgataatgt ctaatcataa 240

gagtagtaca tgcaaactga ttatgtggct gtgggttggtg tgaaagcttg gaatatccag 300  
 accatgtcag aagttactct cgatggaccc aaaggccgaa tccctgccat gacttgtggc 360  
 aacaatacac tctnttctgg cgcagaggta actaaccatg ttattaatat tgcgcaatga 420  
 tattccccta accg 434

<210> 19122  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 19122

agcttggttg ttacagtgc aacaattggg ctggagatga agatgattgg aaaagtacca 60  
 gtggatttgt gtttttcata ggaaacacaa cttcacttg gatgtcaaaa aagtagccga 120  
 tattcactct tttgactcgt gaggcagaat acgtagcagc tacttcatgt gtttgtcatg 180  
 caatctagca taagaattta ttaaaagagt tgggcatgtc acaagaagag ttgaccaaga 240  
 tctttgtgga taataagtta gtcattgctc tagcaaggaa tccagtgttc tatgatcgaa 300  
 gcaagcatat tgatacccct taccactaca taaggaggatg catagcaaga aaggatgtac 360  
 atgcagaata tgtgaagtct caagaccaag aagctgacat cttaccaag ctgctcaagc 420  
 a 421

<210> 19123  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19123

ttgacagaaa tccgacatcg taacattgta aagttacatg gtttttgttc acattttcaa 60  
 tactcatttt tgggtgtgta gtttctggag atgggagcag tcaagaagat tttgaaggat 120  
 gatgaacaag caattgcgtt tgattggaat aaaaggggtg atgttggtta aggtgtaaca 180  
 aatgctttat gctatatgca tcatgattgc tcacctccaa tcgttcatcg tgatatatca 240  
 agcaagaatg ttcttttga ttccgattat gtagctcatg tctcagactt cggaacagcc 300  
 aagtttctta atccagattc atccaattgg acctcctttg caggaaacctt tggatatgct 360  
 gctccagggt aatttccttt ctctatacta tttgagtaaa tcatgatatt ntagtttgtc 420

ttcgttagcc atttacaaat atatat

446

<210> 19124  
<211> 360  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19124

agctcttccct tantattcaa gtgtatggac catatcgtag ccaaagtgct catcgataat 60  
ggttccagtt taaacgtgat gcctaagagc actttggaga aattaccatt caatgcttcc 120  
cacctaaagc cgagttcaat ggtgggttcgt gccttcgacg gcacccgccg agagggttatg 180  
ggagagatcg atctcccagt acagataggc cctcacacct gtcaagttac cttccagata 240  
atggatatta acccccccta cagctgtctg ttggggcgtc cgtggatcca ctcaagtgaga 300  
gttggttccct ctacactcca ccataatgtg aaattcttag tggaagggca tctggtcatt 360

<210> 19125  
<211> 443  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19125

tctaagaata gccttgataa ctntaacata atccattgat tcttcccca aaaatatagt 60  
gtcatcagca aattgaagga tattcactgc aaccttggtc ttccccacca taaagttgtg 120  
gaagcagtggt ttggatattg cttccttcat cattcctgtc aaacgttcaa caaccaagtc 180  
aaacaataaa ggggccaaag gatccccttg tctcaaacct ctttgaggct taaattcagt 240  
agttgggctt tcattaacta cgatagatat agaggctgat gtgaggcacc ccttgaccca 300  
actaatccac ctgtcatgaa accccattct tctcatcata taaaaaagga atttccaaga 360  
cacatagtca tangctnttt cgaaatccac tttaaacc accaagacc tctttgacct 420  
cctaagcccc tcaacaacct cat 443

<210> 19126  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 19126

ctttttttcc tcatatnaga acatacctag ctaccatattg tcggaattgg accagtttaa 60  
 cagccacatc taaaccggat gacttctaatt ttcgaaaata actatttcta actttttccag 120  
 gggntaatga actccaataa cctcattcaa aaccctgaac tatctccact ttcattcaata 180  
 catatgtcat caagcagcaa gtaatcccta caaaagccat atattgggta gtacgctaca 240  
 taaatagtgt cgaatccagg cccatgttca gcttcataca agagaactga gagtctctgt 300  
 cgataattac ttggtagcac cgatgggtctc aattcttttc tctgactatg acacgctgct 360  
 ctcatTTgac cacactctac agaagataga tgaatatatt gaccacacat ataangaat 420  
 ngntggaata gaannagcaa cat 443

<210> 19127  
 <211> 176  
 <212> DNA  
 <213> Glycine max

<400> 19127

taatccatgc atggaatttg gtgtttttga taaaccgttc ctacaaaaca tacaggttcc 60  
 gactctcaact ggttgatttt gttgggggtga tccctactgg gatgaacttc ttttgcgat 120  
 atgcatatct ggtaggtgaa catcttaata atgtggtgtg ggatttagaa cgcttt 176

<210> 19128  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19128

agcttgtata ctcttgaaca gaggactntt caagtccttg ttagattgag ggatgaacga 60  
 gatgaggcca aagaggtatc ttttataaag aaactagtta ttcatttcag tttacacaaa 120  
 aaaattaact attttttctt gttcaaagca taattntgta ttttttttct taagttatac 180  
 tgagttccta aattatgttt atatgtaagg cccttgaaga agtactttct caaaattctt 240  
 caaagcagta tgactcatatc tttgctaata cacgtgaatc tgttntccag gtaataatgt 300  
 aatatactta aaagaacat gtcattcctt c 331

<210> 19129  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19129  
  
 tgcatacaata aagagggtctt attgggttcaa atntatgttg atgatataat ctttggatct 60  
 actaatgaat ctttgtgcaa ggagttttct attgacatgc caaatgagtt tgagatgtcc 120  
 atgatgggtg agttaaacta ctttcttata ttacaaatca aaccaacaaa tgatgggatc 180  
 tttgtcaacc cagcaaaata ttacaaggaa ctcatcatga aattcggaat gaagaactca 240  
 aaacacttgg ctactcctat gagcactggg tgctaccttt gacaagatga atccgggtcaa 300  
 ttcgttgatg aaaagcaata tagagggtatg attggatctc tactttactt atatg 355

<210> 19130  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19130  
  
 atcttattaa actttaaca gagttaatta ttctcaaacc aaaatgaatt ctagcagatt 60  
 gttctggagg acctanggat aattctaaca gattgttctt ctgggttttaa ctgtgaggtc 120  
 aatgttctcc catacataat atttagaggc tataagatgt taaattttat tggaccaatt 180  
 gaaaaattct tggcatgctt ggtagggat aattttagca tattgttctg gttttaagtg 240  
 tgagggtcaaa gttccctata gcatattcta acatatcttt gatatcattg gctttgtcta 300  
 tcaatacctt aagttgttgc gtgaagatac tccaccagaa tgggatatta aggaaattca 360  
 aaatattgga aacatggatt tc 382

<210> 19131  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19131

tgaagcttaa ggataagctt gaagatgttt tgacttttac antgcctaac tcccttgagt 60  
 ggcatttgga ttggttttta tcttgatgt cgcattctaa tacatatgat atttgattg 120  
 catcattcat tatcatgggt aggggtgaaga aaagtttctt caagaaacaa aagctcttag 180  
 ttttaattga ttacaagtcc attgtaatca attacaacat gttgtttgaa gcttgaagag 240  
 ttaagtcttg tatcggttta atcgattaca gttgtctcat aattgattac tctgttcttt 300  
 gagacaatga ccaattttatt caggagtctc tgctttaatc aattgccaag tggattaatc 360  
 aattacttct ctctcattta ggttggttaga agtgaanaat aacactttta tcgattactt 420  
 agagcatcta at 432

<210> 19132  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19132

atcttgtgaa gtatggtggc cacattgatt tggatgatgat gatctatctt tgtttgaggt 60  
 gtcaaagggc ataaaaaagt ttgtgggttag tctaaaagaa tatacatggt cttgtagaaa 120  
 gtgagagtta actggaattc cttgccctca ttcaatagca tgcatatggt tgaatggtgt 180  
 ccaacatgaa gctaattgtca attcttatta taggtgttgt tatgtgttta ttgttatatt 240  
 gtagtttttg gattctatgt ggtaactatt ntttaattta aattgtttgg attgcattta 300  
 caagaaatct acttcttgca acatattcat tattgggttc atgtattgac caacttatgg 360  
 ctctaacaac actatcttac ttccctgg 388

<210> 19133  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19133

tccatcaagt ggtatcagag cacatgatct tcaagtaggt gtctccttaa tctccatta 60  
 attntcagct ttaccttctc cattgatgtt tcttcatttt tttctccat gtattttctc 120  
 atatgtcttt tggatgaatgt tgttaacatg attctttaa atttccatca attaaacttg 180

ctatagaagc tagatttgat tttctatggt tcaaaattct tgttcttggt cttgttcttg 240  
aaccatgaat tgtgttgagt ttaggttcct ttgagttttg tcttgatatt tttgtggccg 300  
aaacctaaac cataaaaattc ttactaaaac atcaaagtag atgaaaacct caaaaatcta 360  
gagtgatatg ttcacttcat tgagttttgc ataaaagtca tgctagtcac gaaacttgca 420  
cata 424

<210> 19134  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 19134

tttctttggt cgtggtactt acccggtgaa gatcgaagaa cgatgaagaa catcgaagaa 60  
cgggttgaac ctttgcgaaa ttcttcacgg aaaacggtac ggaaacgttt cggaagcgcc 120  
tcggcttaga ttttcttcac ggaaacgatt tttccaagca aattcgaaag agagaggagt 180  
gcaaaagggg ctgaaccctt ttcttcttcc ctctctcccc tatttatagc aaaatatggg 240  
aggtggttgc cgccagctc gccagggcga gctcagctcg ccagggcgag ccaggttgct 300  
tcctccagaa gcaacagcct tctggaggaa tattctg 337

<210> 19135  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19135

tgcctcanag agatccaaga aggatttttt ctctgaaaga accagttccg ctctgaata 60  
tgacaaccat cgttttagga gtgctgagca ccagcagcgc ttcgaggcca ttaaaggatg 120  
gtcatttctc ccggagcgac gcgtccatat cagggacgac gaatataccg acttccagga 180  
ggagatagtt cgcccgcggt gggcatcgct gggtaccccc atggccaaat tcgaccagga 240  
cataatcctt gagttttatg ccaatgcttg gcctacagtg gaggggtgtat gagatatgcc 300  
atcctgtgtg aggggggttag tggattccat tcgatgcgga tgctctcagc cagttcttgg 360  
gatatccctt agtgctgg 378



<210> 19136  
 <211> 92  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19136

gatatacaac tccactangc tttccattct atacctcata ttcactggga ttaaattgagc 60  
 agatttggtg agtcgatcta ctatgaccca ca 92

<210> 19137  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19137

tgagaatgga gaattgtact aagcaatcac ttcgcatagc tccaaactcg aaggtggagg 60  
 acacatgaac gaaaacacaa ttcattggggc ttcgaaaaag ggggttgagaa tggagaatta 120  
 cactaagcaa tcactacgca tagctccaaa ctggaagggtg gaggacacat gaacgataac 180  
 gcaattcatg gggctccgaa aagattgaga atggaaaatt gcactacgca atcactacgc 240  
 atagcttcaa acgcgaatgt ggaagacaca tgaatgaaaa cccaattcat ggggctccca 300  
 anagattgag aatggagaat tgcactaagc aatcactacg cata 344

<210> 19138  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19138

ttgcatcttt cntgtgtagc ttctatggag gttggatctt tgagcttcaa tgaggtcctt 60  
 taatggtcgt tttccaccat ggagatgcag ctaatgacaa aggagaagag gtgagaggag 120  
 gcgccatcca ctatggaata agcctgcaag aaagagcttc accaccaaga tgagccttgg 180  
 ataagaagct cggagaggat gcttcaatgg agaaaaagaa agagggagag aaagagagag 240  
 gtgggagcac gaaattgaag gaagaaaaat aaggagagag agttgaactt tgagttgtgt 300  
 ctcacaagac tctcattcat caaagttaca acaagtgtta cacatgcttc tatttataga 360

<210> 19139  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 19139

tgggaggatt gatgtgtatc tcggtgtgat agaaaccagt atatgggctt cgtgggagta 60  
 cgtgaacctc acttgagggtg ggcaacaggg gatggggggc ttatgcgcgc tttgtggatg 120  
 tggaaaactt ggtgtgcacc aatcgccgac cgccacctag taccacatgt gatggatacc 180  
 ccataatcct acaagcctga gatgaggaag tgtagaaggg tgaacttcct gctttttattc 240  
 gttgaccaca gagtgtgtacc tggagatatg tcgcgggggt caagagacct tggggacgtc 300  
 aggcgggggtg cta 313

<210> 19140  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19140

agcttggttac ctatctcttc aaggcgagca aggtggcttc ctccagaagc aaccgccttc 60  
 tggaggaatc ttctggaggg cccaagtggg cctgggttgc atttgcaccc ccatttttac 120  
 taaatacacc ccttgccttt ttttggtgat tctttntttc gtaaagttac gaaaatttac 180  
 gaatttcgta atgatacttg ttttctttcc ataattgtac ggaaccttgc ggattacata 240  
 atcatccctt ttttgactta cggaatgtta cggaacctca ctaattgtgc aacgatgctt 300  
 ccttttgact tccggtgtgt cacagaacct tacnggatgt gcatcaatac tttcttttga 360  
 tttccgcacg tcacggaact tcacanatng cctaattgat ggtgccaagc acctcanaat 420  
 gaccaaacac 430

<210> 19141  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 19141

tctattatct taagtttagag gtgttcgtca aaatgaanat tgttttagcca aagaataaaa 60  
caaagaacaa aaaccacatg gaaagaaagc aaaagaaaaa aaacaagaaa aagagagaga 120  
gagagagaga aagaatcaat ccatccaaga tggaagaaga gagaaggaaa atagaaaaga 180  
aaaacaagtt ctttggacca gacaatgtct aaaaaatgtg cagaattgtc ggaaagaaaa 240  
aaataaaaga gaagagcaat agttatcaca tgcttttagtt acaaaccaaa tctttgtgtc 300  
tgccctcctg ttccacacca aacaaaagag aaagggaaac agaaagagaa aaggccgaaa 360  
caaccaaagc caaatctcct accaaaatcc aaccttataa agacctattg atccatgatg 420  
attatgcata ttatctttga tttgatggga aatg 454

<210> 19142

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19142

agcttcttcc ttctttcgtg ctctgntcct tccttatttc tggaggtgct agacctcgaa 60  
ttctagcctt gatacattgc tctaacatct tggtttttta atttttatgt tgatttgcta 120  
acagattcga tatttagatt tttatgttga tttgccatgg atntgggttc tcttggtctc 180  
cttgattntg gatttgtaac tcctaaatct gagtaaagt taagttgttt ttgttgctca 240  
aatatgagat ttgagttntt tttttttttt tttttgtgtt tctagtgtgc tttntatgtt 300  
gtatntatgc ttttgttggt gatgaacaaa gaggggacgg cgggttggtg gtgtaaaaga 360  
tggagag 367

<210> 19143

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19143

tgtctacatt cattagtaag tgcctagata agcaggctcg tgaacagatg ttactagaag 60  
tgaacaaact ttctttctct ccttggtgcta tgaacctatc attctttgga caaaacttat 120

caaacttaaa tagttgatcc tttcttattt ataagaacat attgggtttt ttttctttca 180  
 aaattaacat ggaagaatcc ttgggttgaa tcataattgg ttaggggaac cattcgtgtt 240  
 gaagggagaa tgggcgtaat ttaaattaac ttaacccatg tataacttgt ggtctttttt 300  
 gcttatgttt cccctcccat tnttaactta gttatcttgg taaaaacata gttttgcaaa 360  
 agggtttctc aaaatcatat acagattatt caacccttct tctaattgtt ttctttgttt 420  
 ttcaagagaa aaca 434

<210> 19144  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19144

agcttttgta tgccttagtc attcatccct atgagaagtt gtcgaagtat tggcaatcag 60  
 aattgccatt cctttgatta tagggttgaa ccaagctcat gcttttacia aaaggttcat 120  
 caagtcaagt tgaaatatgg aagtaaccgt cctgcaaaaat tggggcaaaa gatgaattga 180  
 gtcacatcac tgcttcgtct actgccaac atatttagga ttgtagatgt ccttgttact 240  
 tccagtttca ccttgacaaa gatgtcatgg accatgttga aaatctaaat tgattcaacc 300  
 ccatatcctg cgtaaaaatt cccaatactt cgactgtaca tcattcgcat gcatccatgc 360  
 ttttcattgg ttgcattgct cattgcattc tttccttgan aaataaaata aaatanaatg 420  
 aacttatc 428

<210> 19145  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19145

tatgcgcata cttcttcacg aacgttcact tgcacaagac tttcttataa ctaagaaaaa 60  
 tgcaccata tacaatcaag gcaccttcgt tacctaaatt ctttacatgt acttccaagg 120  
 ggtatttggt acctacatca cacacatttc ctttgctaaa ttcacatata tgcatactct 180  
 aaacactttg gctatcaaaa attgcatagc tgcacatctt ggtatttcta atacctatac 240

atacacaaac ttcatgatga atcttgacta tcgacacaat aaggtgctac atttcatgct 300  
ctcctttttt tcaagtattt ttactaccta aagccgcatg caaattcaag tatattntct 360  
tttgctcact aaaattgtat tcaaattaa aggtattttt gtaatgtatt ttctgcaaca 420  
tatttata 428

<210> 19146  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 19146

agcttttact atcctattca aatgttaaca tgactgttac cctaaaataa aatcaccaaa 60  
caaaagattg ccaaaagtat ctcccaccaa ccccgagat caaatctcat actccctccg 120  
tttcaaaata catgtccatt ttgaaaaat tgcggtaacc aaggacaggc taatttgaca 180  
caaaagttcc tattttaccc ttgtccttta tttctccat tttatattta tttatccac 240  
ctcataatta ctccaatac caaaattaat taaagttaat caaattacaa taccaatata 300  
tactggcaat accaatacta ctaaatggca ttatgtttgc ttcggtattg aaaagctcaa 360  
tgggcatagt tcggttatca aaagttttta aaactcaatt gaaaaaactt cctccatta 420  
ttacatatat tctaatac 437

<210> 19147  
<211> 388  
<212> DNA  
<213> Glycine max

<400> 19147

tctttggcct aacaggaact ccaatatttt tacagcttct aatggtatga atggtttggc 60  
cacaccttcc acatgtaaac tcaaccaatt tctcttttaa cttatgtcct gtgacattgt 120  
cctcatctac agatcttctt ctatttttct ttggccttcc tctttggacc tttttatgtg 180  
gtggaacaag gtgtgtatac tgtgtctggg cccaatattg aggtccttgg actggttcaa 240  
taaaatgctg gtatgtctta ttataagctt ctattgacag ccactcatga cacatgtcct 300  
caagcttccc tctttgtga gttattgttg caatggcatg tcggcatggc atccctacat 360  
caaagttgta aaatcagcac acatgtag 388

<210> 19148  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19148

agctttttat tatgaaactg ccattgccatt cgcattccca aaactggact tgtttgcagc 60  
 acaagctcaa gtgcaacggc agattccttt gcctttttct caacaacaga aaggaggtat 120  
 ctactgtttg gttttccttc tccttgcatt tgggaatggg ctctatgcta aactttccac 180  
 aacacttgct cttgctcaat tctctttact gcacttttta gcatttcgtg gcactatttg 240  
 tccaatcatg gtttttacat tccttctcta acttttttta taatggctta tcaattggag 300  
 aggaaagcaa acatggataa ccattgcattt cctcttggtt ggttgaagag aaattgaaag 360  
 aaaagggaga caaaatttgt cttctagaaa caaatttatt ntttcctttc attctcttat 420  
 caattcaa 428

<210> 19149  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19149

tatgaccaaa acaaaataaa gaanaataaa atgctacaat gttttacagc acaaggattt 60  
 gaaagggtaa ccaccaagaa tccccaatgg actgtgattt caatattatt ttttgagaaa 120  
 aatatgtata attaatTTTT aaaatttaaa tattataata agtttatatt taagcgaaag 180  
 taataagtat aattataaaa ttaatttgag gaaattgaga tttgaaaaaa aaaattaatt 240  
 taaaaatctg atacaaaatt ataaatcatt aattatttga tagttntaat aaatatataa 300  
 ttaataaaca tttataaata attaatgatt ttgaaagttt aataaatata tataaacata 360  
 agtgctaaac aatcataaag ccattgtatca caactcaaaa agaaaatgag tataataaaa 420  
 tatgtcttta tattaaaaaa caaataata 449

<210> 19150  
 <211> 509  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19150

acgcacccat atgatgaatc tatcganagc cacggcgaat tcgagctcgn ggcctgtga 60  
tactntagag ccgacctcga ggcacgcgat ttcnatatgt atatctatag aagcctgagg 120  
aactagcttc agtttctacc acacaattaa tttaacaacc ctatgggcca agggtttcac 180  
ttttcaacct cataaagact cggctcttta tcttttctcc cactagaaag aagtaaacct 240  
ataaatggaa ataagcgctt ggtttctaata tcttccaaa acctttaaaa ttttggaatg 300  
atgtctgaga caaaaccatn tcagtattta aagggcagcg taaattgtgc atgccaatat 360  
cagtctcctt acatccaagg tcttacgaac aacatacatg ctgtataaag ctatgggccc 420  
ctgctgctca cgggctgttg catacataac agcgaggaag aggcccacaa acgatggacg 480  
ccaatagcac cacaagatgt gaccgcgn 509

<210> 19151

<211> 482

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19151

cgcagctgcc tttgatgcgt tgattgccac nttgaaaacc ggaccacaga atctcagctg 60  
accagcttga tcggaaatca tttttggcta gttttataag cntcggggat gttgcccgta 120  
atgggtat tttt ccctggagcc agcacttgcc ctatagcatg gaatctcttc cagaagccgc 180  
ttgggtgttcc taaaaaagct tcctatatca ctctgtgagt taatttggtta ccggccagac 240  
aaatattttc ttcatataat gtgccatttt aatagttctc tacttagttt ctgcaggttt 300  
acacgtgaac aaggtgatga caactatagc tgtggcttta ccactccata tgaaccctgc 360  
cttctggaga gatgtgtaca taaaatcaac caccgccatg cctcctgtgc ctacacaatg 420  
gaaggattat gaagaattgt gcctcccatt ttgatggaca ctgtcatcat tcacgatatt 480  
cn 482

<210> 19152

<211> 410

<212> DNA

<213> Glycine max

<400> 19152

atcttgtggt tgtatatgaa atcctttgcg tcgagatcga tggatatatag cacaggtatt 60  
cagcttcttc tcctaccag aaagggtgaa ttatatgtc tactttcaca cctccctgc 120  
tctaactctt tgactccatc tttgtctata tggatgttac ttagagcagt atgttttcat 180  
ttgcgtgtgt ctatatatat gtgtaatgtt cagtgtgag tatgatattg tagatgttac 240  
tgtacctcaa tgtgattctt agatatcata taatctttgt agtttgtagc atcttctgtt 300  
aatattatct ctgcatttct tacctatatt tggattgtct tcttcttct aaacttacat 360  
ctggctctat gtgctaata ggtgaagtta catgacacag acattaacac 410

<210> 19153

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19153

ntaaacctct cacaaaagg aagactttta tagaagatgt atctccaatt tcttagaggt 60  
gagttcaaat ccttacatat aaaagagtca gaatccattt tccattattt tttaagattt 120  
cttgttggtt cacatcaaat aaaaagaaat ggtgagaagt tagaagatgt tagaattatg 180  
gagaaagata ctacgccgt tagatcccaa atttgagcat attattgtga caatcaagga 240  
aaccctagat ttaaaaacca tgatgataga acaacttcaa ggatcattgc aagcttatga 300  
agagaagcat aagaagaagc aacagatcac taagccactc ttcaagatgc aactgatgga 360  
gaaggaagaa agtcaacgaa atga 384

<210> 19154

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19154

ttcttttatg agtaagtngc gaacggtgaa acttctgtct ttattgttg accacagagt 60  
ggtacctgta gatatgtcgt gggggtcacg agaccttggg gacgtcaggt ggggtgctat 120



tgcccaaac caagcttgac caatcccgac ccaacccggg catagtcggt cagtgagaac 180  
 ctgtgatgta cctaaacagg cgagctcctg gcagtcaaca gataatagga acaaagacca 240  
 caaagcaatg aggcttgtgg tggctggcca tctgtgaatt ttgtgtaata tgtggattat 300  
 ggctctggt aatctgatac ctaggggtggg taatcgatta 340

<210> 19155  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19155

ggctctaaat ttacattgat gcattttttt attggaagat gttgcacgcc attggggcnt 60  
 taagaatagc attccttggt aaaactaatt ctccaaatgt ttgccttcgc aagaaatggc 120  
 cccgaggaag cctgcctcaa agatggccag gaaggacata gcggccgaag gaactagtgc 180  
 cgctcctgag tattacagtc accactttag gagcgctgta caccaagagc gcttcgaggc 240  
 catcaangga tggctgtttc ttcgggagcg acgcgttcaa ctcaaggacg acgagtatac 300  
 ttgatttcca agaggaaata tggccccggc cgtggacatc actgggttact cccattggcc 360  
 atttcgatcc acaaattagc cttgatttt 389

<210> 19156  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19156

agctattggn tttaattnct agagncnnga natatnacgg gacttattcg aacattcgag 60  
 ttaaaagtta ttggcgnctg catttgctca gagctttcgt tttcaatgac gagtgtctcg 120  
 atatgttacg ggagtgatcc gagttaaag ttattgtcgt ttgaattttc tacgagcttt 180  
 tgttttcaat tttaagtgtc ttgatataatt acgggactca atcggacatc cgagttaaaa 240  
 tttattgtcg ttgcatcttg ctgagagctt atatactcaa tttcaagcgt ctgatatat 300  
 taagggatcc aatcgaaaat ccaagttcat agttattgtc gtttgaatat gctacgagct 360  
 ttcgttttan attatgagcg tctcgatata ttacgggact caat 404

<210> 19157  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 19157

ctcagcttga gcaagcaaca catactttta ctgatgtct atcatccgta tattcagaca 60  
 ctagaaatga aacgaactcg tacaattcaa atgacatact tttaactcga gtggattgag 120  
 tctcgaatat atcagacctc gtattgaaaa tggagctcgt acaatgcaac gatataactt 180  
 ttactcgatg tacgattagt ccgtatatat tgagacctca aattgatata aagcttgagc 240  
 aatgcaacca catactttac tcgatatcga tgatccgaat aatcagagct cgaatgatac 300  
 gaactttaca a 311

<210> 19158  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19158

ttcttattac tcttccaatg gttttcttga ccagacatga agagtctata aaagcaagac 60  
 cttgacttgc attcaaagaa cttcttgaac aactcttaag aaaccttgaa acctttacaa 120  
 cctttacaat tctttaagaa ttcattccca atcatcttcc ttcttcttcc ttgccaataa 180  
 agctttctaa gttttttgtt ttccaaacct tattcttctg caagtgaaaa ttctgcagaa 240  
 aacaaaagtg tgctatatct tttcattctc ttcttcttcc gccaaaaaga attcaacaag 300  
 gactaatcgc ctgaattctn tntgtgtctc tcttctccct ttttccaaaa gtatagaggg 360  
 accaaccgcc tgaattcttt tgtgtctcct ttctcccc 398

<210> 19159  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19159

tcttatccaa ggcacattnt tgggtggtgaa gtccttctt tcatggctta ttccctagt 60

gatggtgcct cccctctcct attctccttt gccgtctact gcctctccat ggtggaaaat 120  
 caccattgaa ggacctcatt gatgctcaaa gatccagcct ccatagaagc tccacaagaa 180  
 agcttccatc atacagtttt ttttaatacc atatatacag agacattatg tgtatgtact 240  
 gaaatagtgt gtgtatggtg tttactttga ccacttccat tcttaccag tgcttcccc 300  
 aaatttggga caaatntgct ttgaaccag cttcctgtgg atgatgctct cttacaacct 360  
 aagtcaaggt agcaggagat aatatngtat aggctcatgg ttcaatcaat ctattcattc 420

<210> 19160  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 19160

tctatccttg cttcatcttc ataactcatt cttctcattt gatcaccaag tttaatcatc 60  
 tctaccatga gcttagcggg ttttggagat ggtggagtag catctcaact tgcagaagcc 120  
 atacctgcaa gttaaagctag cacacaagta ataaacaaaa taggacctca ccactcaact 180  
 tagtgattca ctcaagttca ctcggtgata actctttcaa ggctttctat tttataatat 240  
 gcgctcttgc attgtaccac tcttgctctt cttcagttct taagcaaaac cttcaaactc 300  
 agaataaaga agtattcaat gtgaaatatg tcacaaatca gaactcaact caagaagcca 360  
 agaatagaaa tactc 375

<210> 19161  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<400> 19161

tgaaatacaa taaaattatt aaaaaaaatc ttttattaga tccatcttta agagtattat 60  
 aatatgtaaa atatttaatg aattacgtta actttttttg gataacttta ttatatagta 120  
 taaaatattt aataaattac gttaacttct ctttcacact gcaaaacttc ggaaaaagta 180  
 ttccacgaac aaaaaaatat taactgacaa gcgttggttg ttcaacccaa ttcaagtgtg 240  
 tatttcacgt gaattgtcat gcaatggctc gttgagttgt tatgaataga tcaaaacaat 300  
 tataattgga agttaaaatg gtcaattcca catcttggtg atgtgatcct taat 354

<210> 19162  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19162

agcttatact tctattttta gcgtctcgag cagttacggg actcaatcag acatccgagt 60  
 taaaagctat tgtcgtttga atttgacag aggttcaaca ttcaatgtcg agcgtctcga 120  
 tatgttacgg ggctcactct gactttcaag taaaaagcta atgtcgtttg aatgtttctca 180  
 gagattctac attcaattac gagcgtctcg atatgtgacg ggactcaatc agacatccga 240  
 gaaaaacgtc actgccgntc gaattagctc ataagttcaa cattcaatgt ctagegtctc 300  
 gatataatt 308

<210> 19163  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 19163

ccccattgtg atctgactac agcaatcgac cgacccggat ctttaagtcac tgccgcagct 60  
 tctttataca cctcgcagca ctgagtgact atcacgtagc catgacctca tagggacata 120  
 agagcacaga cagctgtagc attcttctgg acaagaccta aggatttctc ctgatatcgc 180  
 cgacacgttc ataactagca ctaaaaccta tgggggaagg aaaaatagat ctaatcttga 240  
 cacaattaac agacattaat tgacccgtag attgcactat catagcaa atgcctacta 300  
 ccgagactgg cttgtgagga cccccaatgc gatcatggct ttcaattata cagtactgaa 360  
 actggcccct gggggaaatg ctgacatata ctgataacca tttttcgaaa gtcac 416

<210> 19164  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19164

agcnntnttt aagaagtaat cnnnnnnnca tacatgtggn ttagtgtatt taacatctta 60

naaatgctgc aaaaaagcat cttanaaata tgaaaattat aaaatacttt ttaagaagaa 120  
 aaaaaatcta aaatacattt taactctcac tctcacaata ctgttaatgt ttatacaagc 180  
 tttatTTTTT catccaggcg gttcagtgtg tttacatct taaaaatatt aaatattttc 240  
 ttcattttaa aggaaaaaaa atgttggaat tgaatttaac tctcaaaatg ctactatttt 300  
 aacttanagg attaactagt gagataagat tctgtttgca tttacatata tntagtaaga 360  
 gaatntgtgt ttaattctta ccttgtgcan annatattta tgacagagac aactgagagn 420  
 taaanatagg taagttgaac t 441

<210> 19165  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19165

ctattcggac ctatgatact cagctttag gtagttctct tgattgacct atttgatatt 60  
 tcatttactt gntatttcac attttggtag gtttaaatat taataatggg acagtgtgtc 120  
 cgtcaaattt aagaatgaaa ttggttattc aatatagaaa aaaaaagcat gggataatga 180  
 aggtaatggg acatgaaatt tttcataact catttcattt tatccatttt catacaagat 240  
 taaatttgaa ctattaaatt aagtttagcaa tataaactta tcttattaag tcataaaata 300  
 tatatatcaa aataagaaaa aagataagac tttacttact tttcagttaa attaaaattt 360  
 gaattaataa gaattttttt cttctaataga attgaaggat taaaataaat aaaaataata 420  
 attatctata ttggtatctt gaacacgcgt acccttatat aatgtgtcta 470

<210> 19166  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19166

agcttttgat tattcattat tgattcaaag aattttttat gataacaaag gtgatgacaa 60  
 aaagctcaaa ggtcaagaac acttcatgat aacaaagatg atgctctcaa gaatcaaaga 120  
 atgagttcaa gattgaatca agaacacttc aaggttcaag aggaaatttg atttcaagaa 180

tcaagaatca agtttcaaga ttcaagttcc gagaatcaag atcaagattc aagactcaag 240  
 attcaagaat caagagaaga cttaatcaag ataagtatga aaaagtgttt tcaaaaactg 300  
 agtagcacat ggattgttct canaacttgt ttaccacaga agttntaatc tctggtaatc 360  
 gattaccaga ttgtttagt cgattaccag tagc 394

<210> 19167  
 <211> 107  
 <212> DNA  
 <213> Glycine max

<400> 19167

gcttgctcta aattacattg gtgttgatt tatgggagga tttatatgcc attttttctt 60  
 taagaataat ggccactgg taaaactaac tttccaaatg tttgcct 107

<210> 19168  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19168

agcttgttca atcaccatag ccatgggtca atgattgatt ggtaaaattc ttttttctt 60  
 ttttcccag tttttcaaaa agcaaaaaga gttgaacaga ccaatgaata agaattcata 120  
 tattcagaaa attccctctc cttaaagata aaagacgagg atgcactttt ggtttccgtt 180  
 tgggggcctc acttgttctt tntctctacc cttcaccac cattttctct tccatgccca 240  
 aaatgcatgt cctctttctt tntttgtnt tccattntca tttcgctgaa accctttcta 300  
 ccctaattctt agagtacaat gccctgctct ctccgttcag ccattaccga ctgctcacca 360  
 cccattcttt cttcgtgga cacttcac ccttactact cctagctcgg tgcctctat 420  
 gacaatc 427

<210> 19169  
 <211> 425  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19169



<211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19172

agcttggttc aagatctaca acaggaactt gaaatgaaag attcaatgag agtgaaggag 60  
 ttacataatg aaaattatga ttcacagggt acttgatgatc attccttctg tgataaggag 120  
 ctaaattgat tntcacctga aaagcacaca gataactctc caataactga ctacaaaaaa 180  
 tcatatgatc aaaaggaaga agaaagatca gaatctatga gcaaaattga agctgagctt 240  
 gaagctgaac ttgagagatt gggattaaac atgaacgaat ctagcccaga aagaccgctg 300  
 tctgagcttg ttgaggtaag cataaaatgt ntatcttttg catttcttag taatgacatg 360  
 atcctgtaag canatttcat tgtcttggaa tatggctgct gaaatatact ntctttanat 420  
 aatntcttat at 432

<210> 19173  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19173

ctggactcta gctagagaag ctntaanaac ctttattttc atagttatat atatatatat 60  
 atatatatat atatatatat atatatatat atatatatat atatatatat atattttata 120  
 tgagaggggg gaaaatatat tatattaaat cctaattctt tatatatgaa tctatgggct 180  
 agatataatt ttctcatctt atataagata ttttctcgta taagatatgt acttatatat 240  
 gcacatatct tttattttat tgagagggtta tttttaaatt aatgagtttt tttttttaa 300  
 aaaaatctct ataaaaacta ttgggaaaca aattaacata atttcgtttg cttttgtgtc 360  
 gcgttgatgt caattctcct tttataatta tctattctac tatgacggtt cgcacgacat 420  
 aatttcaatc ttaag 435

<210> 19174  
 <211> 437  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 19174

ttcttttgcgc gtttttggag gctcagcgcg gatctggagc ttaacgcaca tttggcggct 60  
tagcacacga tcacttatgg cagcaaaact ttgcatgtcg cttagcgcgc agtgtaagct 120  
tagcgtacaa tcaatatcga aaaacataac tgtgctgtgg agaaaaaagg gagaaaccaa 180  
aagaaagctt ttttgaacc aaataaggag atagggcacg agagaagatg gagaaccac 240  
tcaattgggg accatttcct ccattttctt ccacacctct tgtttcctt ttgtattatt 300  
aatnttctca tgacaatgag aggttaaacc attcactgtt ggaagctcaa caaccaaaaca 360  
ctctngatat aatgatncta actatctatn taatgatatt ttgatattat ggggtctntt 420  
ctatgctaaa tatcatg 437

<210> 19175  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19175

aaaacacaat tttgcgagat gtgttacaat tnttagtggt cttgatttcg agattaagta 60  
tatcaaggac acttcaaact ctctacttga ctatcttacc cgtgaattct tacagaaaaa 120  
ttgccatgcc acctaaggca tctagcacct ctttatgagg aggaagaagt tcaagtaaag 180  
atttcaaatt gactctacca gagccattct ccaaaaagaa ttcaccctca aaatctgggt 240  
caccaaccca agttgggtta ttaactcaga aaccaaaca agaagggtca tctatccaac 300  
tagtttcaat taaacctaag tcatccactt aggaatttcc taaaaatcaa acattaaaac 360  
ataccaaggt cgactatgcc tttctaataag aaacacta 398

<210> 19176  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19176

tgcttttctc ttagagatcc aggaaggata aagcggctga aggaaccagt tccgctctcg 60  
aatatgacag ccaccgtttt aggagcgtg agcaccaaca gtgcttcgag gccatcaagg 120

gatgggttatt tctccgggag caacgcgtcc agctcaagga cgacgagtgt atcgacttcc 180  
 aggaggagat agttcgccga tagtgggcat cactagttac ccccatggcc aagtntgacc 240  
 cagacatagt cctcgaatth tatgccaatg cttggcctac taaggagggc gtgcgagata 300  
 tgcgatcctg ngtgangagt cagtggatcc cgtttgtgca gatgctctca gtcagctcct 360  
 gggatatacct ct 372

<210> 19177  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19177

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 ggatgtatgg aaatatgtag catgaaatgc cttgcaaaat gttgaatgaa atgccttgcc 120  
 aaatgttgaa taaaatgcct tgcaaaatgg tgaataaaat gccttgccaa atatgaatat 180  
 atatagcatg aaaatgcctt gcataatatg aatatatata gcatgaagtg ccttaciaag 240  
 tggttgaatg ggtagcgtan aagtgttttt aaaatatgtc atttatgata ggtggaaaag 300  
 aaccttccaa aaaatgtgtg tatatatata ggatgtagca tgaaaagggt tgtcaacaaa 360  
 atatatgtgt acatggatgt ct 382

<210> 19178  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19178

agctttgatt nttatgtcaa caaaaatagc gattnttatc acaatagggtg tgttttgttt 60  
 gtagttcttt caaagcttaa tttttttggt taattgtttg ggtgttcttg atccttctcc 120  
 tactttgttt cgcatagaag cccgaagaac aactaaagc tttgattttt atctcaagaa 180  
 aagcagcgat ttttatcaca acaagtgcgt tttctttgta gttctttcaa agcttaattn 240  
 ttttggttaa ttgtttgggt gttcctgac cttctctac attgtttcgc atagaagccc 300  
 anagaacact anagctttga ttnttatctc aagaaaaagc agcgatttta tcacaacagg 360

tgcgttntct tttgagttct t

381

<210> 19179  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 19179

tgtaatcgat tacacacata ctgtaatcga ttaccagatg tatttttcag aaaacattct 60  
caacagtcac atctttttat ctgattctta agtggccatc aaaggcttat atatatgtga 120  
ctagagacac gaattgaaca agagttttga agaacaaaaa ggtcttatcc tcttaacaag 180  
caaaattggg ttatcctctt acaaattcct tggccaaaac actcgtgatt caataaggaa 240  
ttatttgagt gctcaaattg ttcaatctat ctctttctag agagatttct tcttctcttc 300  
ttctttattc tgaaaagggg ttaagagacc gagggctctt tgttggtgaaa ggattctaaa 360  
cacaaatg 368

<210> 19180  
<211> 306  
<212> DNA  
<213> Glycine max

<400> 19180

tttttgtaaa actttttgaa taaaatgtag cagaagttaa caataattct taaaaaaaat 60  
gtgtgggctag cacttggtat tttagtatcc aagctaacct tcatatcgta cttaaatcca 120  
ttaacggcgt tattgtctta catgccttta ttgtgacaaa ctattagact aataataata 180  
ttttaaaaca tacttaaatg aattaataat ataaaaatat tctaataattt gtgacaaaat 240  
aaatagattg agagaattag agatactatg gaaatatttt acattgctac cactatttta 300  
catata 306

<210> 19181  
<211> 299  
<212> DNA  
<213> Glycine max

<400> 19181

gcacgagaaa acttcaatcc acccaagaag gtgttaaaaa accagagttc attccattat 60

cctagtttaa gagaatctta ccatgagaac caaatctaaa ctctgaagaa gccaaacaag 120  
 ataaaatcta tgtctacata cactgatggc taaaccattc caaactaaat ggcaacttta 180  
 gcttaagatg gctcataata gttaaagctt ggagaaaaag ataacaatga tgggagggac 240  
 agtatgggtgc ttatgatttt acttttcact gctctatgat acataacca ctgttgagc 299

<210> 19182  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19182

tagcttcttc aaagacttgn ggtccaacat aggcatcatt tcaagcctaa tcaacgaggt 60  
 aacaccccct tgggtgggtcc taacaattgg tgggggtctc aatttttttg ggtatttcat 120  
 aatttggtt gcagtggcca gaaaaattgc taagccccaa gtttggaaca tgtgcttgta 180  
 catcttcatt ggagccaatt ctactgttc caccaacact ggagtcattg tcaccagtgt 240  
 aaagaacttc cctggcacia ggagcattgt aattggcctc ttgagtgggt atcttggtt 300  
 gagtgcagct atcatcactc agatatacta tgccttctat ggaaatgatt ccaagnttct 360  
 aattntgctc atggcat 377

<210> 19183  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 19183

tctcgaggaa gcctcttaat gaagcttctc tatgaagaat tatgaagctg ccttggtaaa 60  
 aatgcttccc cacctttggt aaccggtggc tcttctcaaa atttggcttg gcgcttcaca 120  
 gaacacttgg ccatgatctg accggtggga tctttaagaa aatgtctgga atgtgtgcca 180  
 tgttttcgct tccgaaagca ttgctcactt gtgcggtttg agcctttag tctaagtacc 240  
 tttggaaaaa tgccatttct ttccctttct ttcttccaaa accattttca acattccaag 300  
 atctttctcc atcaccaca gccaccatta gccaccacaa actgtccgtg ttcttcattg 360  
 aaacccca cagag 375

<210> 19184  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19184

agcttgtagc ctcacgttc gcgtgtatga tatccactcc acacgatntg aagtagagga 60  
 gagcttcaac cctataacgc aacgtggcgg acaaaagtgg gcagtaaact tgaatggccg 120  
 tcattgtcaa tgcggaaagt attctgcgct tcaactatcca tgttcacaca ttattgcagc 180  
 ttgtgggttac gtgagcatga accaatatat agatgttggt tatacaaacg agcacatctt 240  
 aaaagcttac tccgcacaat ggtggcctct tgggaatgaa gcggctattc ctccttctga 300  
 tgacgcatgg acacttatcc ctgacccaac tacagttcgt gcgaaaggtc ggccaaaatc 360  
 aacaaggata agaaatgaga tgg 383

<210> 19185  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19185

gagcgtaga tgatattgtc ttcaccgacg aaaggatcaa agtgagtcta aaaagagaca 60  
 aatctgagca tcatactttg ataaatgcc aagaaactat ggcaagtga gaggatgaga 120  
 aggagggaga aacctatggt gtgactgcc ttcttatacg accaagtttc ccaccaaccc 180  
 aacaatgtca ttactcaacc aataacaacc cttctcatta cccaccacc actcatccac 240  
 aaaggccatc cctaaaatca accacaaagc ctacctaccg cacttccaat gacgaacacc 300  
 accttttagca taaacaaaa caccaccaa gacatgaatn ttgcagtga aaagcctgga 360  
 gaattcacc ccaaatccag 380

<210> 19186  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 19186

acctacgatc tttaatggag agggttacca ctactggaat acccgaatgc aaatctttat 60  
cgaggcaata gatctaaata tctgggaagc cattgaaata cggccttata taccaccac 120  
agtataaaga gtttcaatag atggtagttc atcaagtga agcataacca tagataaacc 180  
tagagataga tgggtctgaac aggatagaat acgagtacaa tacaaccta aagcctaaaa 240  
cataataaca tctgccctaa gaatggatga atatttcaga gtttcagatt gtaagagtgc 300  
taaagaaatg tgggacactc ttcgattaac acatcatagg aactacaga 349

<210> 19187  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19187

agcttgtctc tgtggaagaa ctatggtgat ggtgttcaaa ggcaaggtag gacaggacgc 60  
aattttcctg ctgcaaggtc accaacgcca gtgacatctg agaagcttgg aaatataggg 120  
actgtaaagc agcttaaaag ttcaagactg ggacttgaga agagtgaag gttaaaatac 180  
ttgtattgct taagtttgac natttgttta ggctcacata tgnnagctaa tgttggtgat 240  
tccatgtagc agggcaggtc gtccaccaac caggaaactt tctgacgta aagcatatgc 300  
acgccagaaa cattcagcaa ttagtgcac agcagatttt cttggtacta atttctgctt 360  
ctagaaaaga gtaatgatct caagttctca tgtgtataat aca 403

<210> 19188  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19188

tanagataaa ttaagaataa taatagaata ttccatctta tattctgatt atatattcta 60  
tcaaatacaa attgattagt tagactaaga ataccgatag actatcttat cattgataat 120  
atattctatc aaatacaaac tgattagtta ggctaacaac actgatagaa tatcttatca 180  
tatattctat cagttattac ttattagatt gtacatatta attcttttat ttaaaaatat 240  
cattgtcaaa gtaggataaa tatttaatta tatacaattn gttttattaa ttattaataa 300

ccttctactt taccctaata atttatactt aacagatgag tatttntctc attataacta 360  
 tgtactatcc aatgtcttat tagattttta ataacatatt atccatttaa tttacagatg 420  
 actgtaattt gatcaatcat tagtatatat atttatacta tcgaccgatt aagttaaag 479

<210> 19189  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <400> 19189

agcttctctt gtaccttatg caaatcctca actcatcctt caagatcaaa ctgtctacta 60  
 gtgattgggc cctttcctct ctccggagct taagctcgct gttactgctc cacagagccc 120  
 ctcggaattt gttccggcca tgtttttccc tacgggcccct tttggtctct tgttaciaag 180  
 ccttggtggg ggcaatattt acgtctcaga gttcggcatt ctcttttcgg atcttaagag 240  
 ctgctgattt gaacttggtt ttgactgttt ggactttctc gagttctgcc ttgagggctt 300  
 gcacctcttc gtctcgtcc ggagcttcaa ctccacccc cttagtggtt ctcaaactcg 360  
 ggagccaatc cagaccttgc atgtgggctt tcaaccatc 399

<210> 19190  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19190

ntaaggaagc aatgcattac cccacatgga tcaatgcaat gcgattatct gctgaattct 60  
 attgagaaga attcaacatg ggaacttggt aatctgcctc ttgacaagaa acccatagca 120  
 ctgaagtggg tttataaagt gaaggtgaaa tccaaatgag gccagacttg tggcaaaagg 180  
 gttcttatga aaacctggag ttgactatgg tgaggtctat gcacctgtgg caagaataga 240  
 aacagtgaga ttggtggtag caattgcaaa tatataaggt tgggtctatgc ataaactaca 300  
 tgtgaagtct gctttcttaa atggacagct agatgaggaa gtttatgtgg accagccact 360  
 tcttgagaca ttgggacaag atgaaaagg atacagattg aaaaaggaat atatggtctt 420  
 aataagctcc atggcttgga aca 443

<210> 19191  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 19191

agcttgtagg gttcattcca tattccgttg tcatatgcta aacttgatcc catatccact 60  
 caataattca atggtagcca taaccccaac caagggtcct caacctccat ttttctgagg 120  
 atacgactcg agcgcaacgt gtgcttatca tggaggagcc ccggggcatt ccattgagca 180  
 ttgtatgacc ccgaagcata aagtgtgatg tctaattgat acgggctcgc tgaaattcga 240  
 ggagaatcgc ttgttgaatc ctaacattga caagcaacac catacatggg gcaattctgg 300  
 aagctggtgt tatgactcat catgattatc aagtttatgc cataaaccac agttactatg 360  
 cttaatgata tggataagat gga 383

<210> 19192  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19192

tctgtgagag cacttccttg agaagctaga gcttagctac acacaccctt ttcatatcta 60  
 agctcacctc cttgagaagc ttccttaaga agattcctaa agaagctaga gcttagttac 120  
 acaaacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180  
 caccgcgtat aatagctaag ctcaccccca tgacaaaata catgaaaata caaaaaatat 240  
 cctactaca atgctactca taatgcctcg aaatacaagg ctaaaaccct atactactag 300  
 aatggcctaa atacaaggcc ccaatgaagg anaaacctat tctaataattt acaaagataa 360  
 gcaggctcat acttagccca tgggctcgaa atctacccta aggctcatga gaaccctacg 420  
 ggccttcctt ggatctctgg cccaatctac ttggactctt ctatc 465

<210> 19193  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19193



agcttttcat gtctatggtt tctagagaga gaaaggtcca agttctagag agagagaaag 60  
 gtccaagttc tagagagaga gaaaggtcca agttctagag agagaaaggt ccaagttcta 120  
 gagagttttg aaagattttg ttgtgtgaag atcagaagag accaaagctt gaaacaagag 180  
 ccggtttaag agcttgagat aagtttgtga gtgattgtga gatcctagag gtgaaggaga 240  
 catcctcacc acttgatat ttgcaatctt tcatcttggt cttctctttg ttcttaagaa 300  
 ggcttcttgg tatggaactg tggctcttcc ctataggtac ttgatgtaaa tataatntcta 360  
 tctatntaat gatgttt 377

<210> 19194  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19194

atgtactgcc ttangcgatg ggatgcccac actaaagcac aacacgttct ttcgagcaag 60  
 gagtaattca tctcacaggt cgtgaacttc ttacttaggt agtaaacagc gcgctctttc 120  
 ttcccggatt cgtcatgttg cccagcata caccattg actcgtccaa gattgtcatg 180  
 tacaaaatga gaggccttcc aggtactggg ggcataagca cgggaggatt cattangcac 240  
 tctttgatcc ttccaaaaag cctcttgcaa tctcattcc accagtcagt ttgggtttta 300  
 cgcaagaagt tatacaacgg ctacaaaatg gcggtgagct gcgatatgaa tctggccata 360  
 taattcaa 368

<210> 19195  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19195

agatactcag ctctaaattg aattaaacat tcagaaactg ctggtaatcg anatcatata 60  
 tgtgtaatcg attacacaag gcagattntg aattcaaatt ataatagttg ttgtaaatca 120  
 gttttggcca ctggtaatcg attaccagag agtaaatttc ttgtaaaaga ctttctaact 180  
 taattttctt ggccaaacct tttgctactt caattggaat tcccttccta tttaatatatac 240

cctttctaag actctataga ctgtcttgat catccatctt gaatatcttt aattgctttg 300  
tcttgaataa agctgtgaga cgcatgtgat ctttnggcac catcanaaca tcggcttgat 360  
cctttgtcta caatctcccc ctttttgatg atgacaatcc ctgaaatcaa gacaaactat 420  
ata 423

<210> 19196  
<211> 373  
<212> DNA  
<213> Glycine max

<400> 19196

agcttttgcc tcttcatgtc tggaatatga atgttgcata tagatccaaa gaaccttagg 60  
tgctttgctg atggcttatt cccgttccaa gcttcaatag gtgtcttgctc ttttacagac 120  
ttagttggac atctgttgag tatgtaaaca gcacagtaga ctgcttcagc ccacaatgtg 180  
ttatgtactc tcttctctt gagcatcgat ctaaccatat ccataattgc gcaattcttt 240  
ctctctgaca cttcattctc gtgaagagaa tatttgacta taagggtggc gctcaatgcc 300  
ttcactctca caaatcttt catactcgcg agagggtgtac tctttgccgg gatcacttca 360  
ttaaactttt atc 373

<210> 19197  
<211> 477  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19197

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ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120  
aggcaataga tctaaatata tgggaagcca tagaaatagg gccttatata ccaccacag 180  
tagaaagagt ttcaatagat ggtagtcat caagtgaag cataaccata gaaaaaccta 240  
tagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300  
taataacatc tgccttagga atggatgaat atttcagggt ttcaaattgt aagagtgtca 360  
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420

ngataaatgc actaactcat gagtatgata tatntagaat gaatgcaaat gaaaata 477

<210> 19198  
<211> 414  
<212> DNA  
<213> Glycine max

<400> 19198

cggtgcctat agtagatgac gaagcatatc ttaagacagt actttatgta ttaacgggtgg 60  
taaatagaagt gaatgttatc ataccaagtg acaaaattgt attcgttacc attggattca 120  
atgttcaaaa gtgtcattca aataaaccaa agcaaaactg ccaattcatg aacaatggga 180  
tgatggcagc cgaaatgaag aacgtatgct ctgaatggta ctagaacaca tgctccttaag 240  
tatggcagta tgggtgcacgt ctttctgcaa gacatttatt tgagagatgc ttttgggtaa 300  
tagggaaatg atggcagctg cacggaaata taaaatatgt caacatcatt ctcattcatt 360  
gtattgagtt taggtgggtcc ctaatataat aggggtgcacg acatttgcta tcac 414

<210> 19199  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 19199

agcttttgat tattatatcg acttacatgt aattcatgag tcataattta gtatgttaca 60  
gtacatttta ggcaatacta actactataa aataacatta atgtgtgccca ccaagcactt 120  
atagtgaact tcaatgaaaa cttttcattt attaacttga aaccggcatt gttaaaacat 180  
ttattgacaa gagtgctggt aaattttcta tatgatacag aatcgagagg attaaactca 240  
agttgcactt tttctttctt acttatacta ttagcatcaa ttctgttgat gcaactggct 300  
ttgatgtttt gatgatgaac aagatgatgt g 331

<210> 19200  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19200

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aagaagtaaa agctggcaaa gaaagcaaca attgatcaaa tggattgaat gaatctcatt 120  
gaaagaaatg aatgatgaat acatgtgttt catattatat acaatcaact ttgggcacca 180  
atctaactac tagaaaatac aactaactat aactgcttct aactgtcaaa acagaaaaca 240  
gttagtgcat aactaattct atatgttgag agccctccca atatgaggaa tgtatgttag 300  
acatttccaa cttgagctgc aaaagacaaa aagcaatagg agagaaagct ttggtgaata 360  
tgtcggcaag ttgataggct aaagatatag atagaagatt gatcaagcct gaaagcaatc 420  
tcttgacac aatgttgga gttaattttg atgtgctttg tgcgctcatg aaacacaggg 480  
ttgac 485

<210> 19201  
<211> 108  
<212> DNA  
<213> Glycine max  
<400> 19201

gcaggtaaga actcgcgcta cccggcttgc aaccaacaca ctggagcaaa ggcgatagcg 60  
ccaccgacaa tgcatgaccc acggcgctac gcacacgggt aaagagcg 108

<210> 19202  
<211> 213  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19202

ttttctatag aattattaaa caagcactta caagtacaac acagaggttt acctgtgatc 60  
gaagaacttc cttgtatgta ccaatttctc gtaaggctat ggtgaatctg gtcataacag 120  
gacctaggct ataaacgtcc gtentanate atttcatcac cattagactt ttagagtcaa 180  
aggcaacata cagactctaa atcaaattat gaa 213

<210> 19203  
<211> 220  
<212> DNA  
<213> Glycine max  
<400> 19203

[illegible]

<400> 19204

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<210>      19205
<211>      484
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      19205
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8039

tttt

484

<210> 19206  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 19206

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atttccatat gctagaaaat cattaatagt acaaacacc attgtgcgta acctgaatgt 120  
ctactgcaca ttgcatccc acacatctac ccttcttcc cacaattgtt tcaagtcttc 180  
gattaatggc gtaagataca catcaatatc attcctggc tgccttggac ccgcgatcat 240  
catacacagg ataatgtatt tacgcaaat gcacaaccat gggggaagg tgtaaatcat 300  
cagtaaaaca ggccaggaac tgtggttgc gcttaagcta ccataaggat tcattccatc 360  
agaagcaaga gcaagcctta 380

<210> 19207  
<211> 225  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19207

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tcttcagaaa caagtcactt gaagaattgt gacttttga aatttatttt tcaaaatcag 120  
tcactggtaa tcgattacca ttaaggtgta attgattaca catgaacaga tgtgactctt 180  
cattttaaat gttgaaaatt aaaacgttaa tatgctctgg taatc 225

<210> 19208  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19208

agcnagnnat ttatcttatg attaataag aacaagcttg agcgcacatc gttcgcgtgt 60  
actatatcca ctgcacaagg tttgaagtac aggagacctt caatcctata acgcaattct 120

[illegible]

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<223>      unsure at all n locations
<400>      19209
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<210>	19210
<211>	463
<212>	DNA
<213>	Glycine max

8041

ttgggcagag tatctgactt tgcctgttt cgcttggttc tgtagtccat gatgattgga 420  
tgtggaatta cctggatggt gtggatagct tgggaggatt gat 463

<210> 19211  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19211

agctngccgt tatggtgtgt ttcgactatg ctctcgggtg gcggaacaag ctacaaaagg 60  
agagagcaag aatgaatag ccaatggttg atacatgggc ggagatgaaa aggatcatga 120  
ggaagcggca tgtgccggct agctactcaa gggatttgaa attcaagctc taataactaa 180  
cccaaggcaa catggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240  
cgaagattga agaagatgag gaggtaacta tggtctgatt tcttaatggg tcgactaatg 300  
atattcgtga tategttgag ctgcatgagt gcgttgagat ggatgatctg cttcaciaaac 360  
cactccatgt agagcaacaa t 381

<210> 19212  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19212

ggtgcatcca ataccctgat gaggatgtcc catatgttct taaatctgta ctgattcatt 60  
tgcttccaaa gtttcatggc cttgcagggtg aagaccgcga caaacatttg aaagaatttc 120  
acattgtctg ctccaccatg aaacccccag atgtccaaga ggatcacata tttttgaagg 180  
cttttctca ttcattatag ggagtggcaa aggactggct gtattacctt gctccaaggt 240  
ccatcacgag ctngatgac cttaagatag tattcttaga aaaaaatttc cctgcttcca 300  
ggaccacaac catcaagaag gatattctcat gtattagaca actcagtgga gagagcctgt 360  
atgagtactg ggagagatat aagaaactat gtg 393

<210> 19213  
<211> 365



<212> DNA  
 <213> Glycine max  
 <400> 19213  
 agctttatct ttcaatttcg agcgtctcgt tatattacgg gactcaatca gacatccaag 60  
 taaaaagtta tcacggtttg aattggctca gagcttcaac attcaatttc gaacgactcg 120  
 atatatgatg ggactcaatc agacatccga gtaaaaagtt attgtccttt gaaatggctc 180  
 agagattcca cattcaattt cgagcgtctc aatatattac cggactcaat cagacatccg 240  
 aaaaaaaaaat tatttttcgtt tgcatttgct caaagggttca acattcaatt tcgagcgtct 300  
 tgatatatta cgggactcta tcagacttcc gagtcaaaag ttattgtcgt ttggatatgc 360  
 ttcaa 365

<210> 19214  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19214  
 ctgagacaat tcatacgaca ataactgtnt actcggatct ctaatttagt tccgtaacat 60  
 atcgagatgc tcgaaattga atgtggaatc tctgagccaa ttcaaacgac aataagttnt 120  
 tactcggatg tctgattgag tcccgttaaca tatcgagacg ctcgaaagtg aatggtgaag 180  
 ctctcagcca attcaaacga caataacttt ttactcggat atctgattga ttaccgttat 240  
 ataacgagac gctcgaaatt gaatgttcaa cctctgagca aattcaaacg acaataactt 300  
 ctttctcgga tgtttgattg agtcctgtaa tatatcgaga cgctcgaaat taatgtttaa 360  
 gctctatcca attcaacgac ataactttta ctctatgtct gttgagtcca taatatacga 420  
 gacctcgaca tgaatctgaa ctctattcat tcaa 454

<210> 19215  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <400> 19215  
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ccctcattaa gaactagctc ttttcttccct ctatcgccct taggtgaata cacctttgtt 120  
 tggttctcta tttggctctt aaccctttca tgctactttt atacaaactc tgacataaat 180  
 tcccccttctt tatggataaa agaagtgtcc actgggaggg gaatgaggtc aaactgtgtt 240  
 aggggattga acccatagac aacctccaaa ggggactggt tgggggttct ttgaaccccc 300  
 ctgctgtatg caaattctac atgaggaata tactcatccc aagacttatg gtttcctttc 360  
 acaaaaaccc tta 373

<210> 19216  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19216

tacggatatn tgtagaaat ggaactcatt gtgcaattca tcgcataatg tagtcgtgtg 60  
 gttttcacta gttttcatta tatttcatct acgttggatc aattcacacc atggaatgta 120  
 atagcattat attccatttc cctccattcg atccttctcc accaatcgaa acattagtgt 180  
 gtcaagattg tatgcaataa agtggtctaa gtttgagtcc ataaattgct ttattcagat 240  
 tatatacaag ggatttatca gaggactcca cacaacatg gggcagccaa taacctcctt 300  
 attccagacc tctgaaaact acagcctctg acagtttaga tgggaagtcc atatctttag 360  
 aaacttataa agagaaccaa aaaccttctc agtggttatga aactggcaca tgtgacatcc 420  
 tgagaattct actcggaatt tctgtaagta ttacatttaa ataattatat agatatatat 480  
 tattcc 486

<210> 19217  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 19217

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 cttgaaccac taccatgta gttcgaatga catcaacgga atactgggag agtctgaaag 120  
 cacaccgcat cattgtgta tagacgaata ggcactccgt attattctat ctaaacgcgg 180  
 atactaacgt ttgacagaag taaggtcaga tgtgctacaa tgtcatgaga acatttctga 240

cggatgattt ctcatatgat ccatactaact atatgcttag cactacctta tctaagtaag 300  
 taaaatcacc acttaagatc tatgatgcag tgctcccacc aacggccttg gacatatgac 360  
 tcc 363

<210> 19218  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19218

agcttattat tattnnnnaa ancnatatga agcaaacaaa taaatatttc actgtaatat 60  
 aaactttgct tccaattata tatactcgct gaacttctta cattataaat tagaatagat 120  
 tcacagtgtt taacaacaac aatatgttgt tattgtcggt gaccaccata ataagatgat 180  
 ttaccttata ctctgatctg gaatgaaatt aaacatttca tactaaactt gctcaacctt 240  
 atgncgaaga atgagataat cataatcata ctggacttgg tagacacttt atcatcatta 300  
 gtgccgatga tggaattgat ttcaaagctg taataagtgg agatctttta ccaccata 358

<210> 19219  
 <211> 95  
 <212> DNA  
 <213> Glycine max

<400> 19219

tactaagctc ttgcgtaccg tgctgggctc acagaatgcc aagtcatttc ttttttacta 60  
 gctatgtgaa ctgaatgatc ctgacgtacg acctt 95

<210> 19220  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19220

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 atatattgtg tgatcatgta cttgtttaca tcagctgaat tcttgtgatt ctattgatat 120  
 ctacttgatc atttgccagc attgtagggg ctctatttct aaggcctatg caactgggtga 180

agaaacatga cgagtatgag aacatgatat aactctgggc caccaaattc aacttcttgc 240  
agcttcaagc atatgcatga aatatatata tatatatata tatataatct agaactc 297

<210> 19221  
<211> 467  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19221

cgattttcta tcgggtgcag cataatgaac caccaggcct ttatgattac ccaacactct 60  
tctgaagtcc ttcaatccat ccgctaaata gaatttgcta ccgtctcttc taacctttat 120  
aaaatgtttt tcttcattgt aatcaaacgt tacatacagt gggtaagtaa gacccagtg 180  
tctgtgatat gctaattgga tttgaatgaa gttttggaat tatacatcaa ttacatgggt 240  
aaccacacaa tagtagatat aattcttggtg ttcatttcat acaataaaat gaataagata 300  
gtcaatatga aaacacatat tctatcaacg tggaaaacac atngaaattt gtatataact 360  
gggttgccga agaaactgtg tgttgccata atgacgaaat gtgtcatagt aaaacttttt 420  
gcagacatga agcanataag ttgtctgata tatatggaga taacaat 467

<210> 19222  
<211> 376  
<212> DNA  
<213> Glycine max  
  
<400> 19222

tatgcttttg ttatatgcta accgtcaatc accgaaaaat gagcagaata aaaaaaaaaa 60  
gatgaagaga gaaaaaaaaa ggctatggta aattaaaatg ggtaagccc aataagctaa 120  
gatgctccag ccaaacaat aacatagggtc tcttctccat gaccgctcgt gtagaatttt 180  
tgtgtgagag aagaatttag atataacgta acaaatagag aaaaaattat tatccaccgt 240  
aaaaaaaaat tacattgtca taaaactatt ttatactgta aggacatgac tattaaacta 300  
acatatattt agtagtattg tttttaatta aaattaatca agtgttgtat tttaaaattg 360  
aatctcact aatag 376

<210> 19223

<211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19223

cgaaggaggg gagccaatgc ctctacttgc tcctagttga gaattgtnta ttttgtatag 60  
 attgctagtt agcatgcaat taatctcagt tgtgttttca caggataaaa ttcaaagaca 120  
 ttgggagcat cttgagcttt tgttttcaat agtcatgtca ataataattg aaaggggggc 180  
 tttggaaacc gagaaaaatg tcaatatgct ttcttcaaga attcacaatc ctttatgtaa 240  
 attaagtggc tttcctaaag gtattgtgga gaagaatcaa atcaacaatg ttgacttata 300  
 accaacaan agcattanga ttccacacac ggataaatta ccacaatata catcttgggt 360  
 atacgtggct aggtgcttct gactntcaag tttcattttt tttttgtcca atagatgacc 420  
 tacgaattgc aatgcaattt tgtcataaga taaaatacat gcttcttga 469

<210> 19224  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 19224

tcttcttttg ctgttgctat ctgattgtcc atgtcagcca gtttttcagt tggttcaatg 60  
 tttcctgaat caatcaaggc cataatcttc tcccgggcag catctggatc tacttctata 120  
 tgagcacaga caaatatctc ttcgagctct gcttgcttct tgaaagcaat ttccttcac 180  
 ctgctgggctt tcagctgatc aagtctctca acttccactt cagcctttat tattaagga 240  
 aaaaaacagt taatatcata cttggaactc gaatctgtaa acttcataag ttcttttagta 300  
 cctacctgct caatcagatc cagagcaagg gcaccaggaa cagtgacttc atcaacagaa 360  
 gctgacatat tacaggtaac atgggtcaa atgtctcttt cctcgggatg agtatccatt 420  
 agattccaaa gatcaattaa ctgagaagct aattcttg 458

<210> 19225  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 19225

agcttagtct attatcatag aattcgtggg tagttttctg gaccacaaaa tttatgtagc 60  
 cttttgtctt tttttttttt tttccggatg ttttaacttat ttgtctagtt catagcaatt 120  
 tgtttgtgta ccatgaatat tcgatgaatg tgttgtatgg actcttcagc aattgacatt 180  
 tatttgtttt atttcagttc taagggttgaa aacaaaaact tcgaaaatga cgctacaatt 240  
 gaaagcaatg ttgtaaggat ttgacaaagg aaaaaatggt tgatctttta tgggtgtcac 300  
 ccttttctgt tgatgaagggt ttgccatatg ctctcaaagg gtggcctaatt gttggtgata 360  
 tatggggata gaaagtgggg a 381

<210> 19226  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19226

tctttaaagc anaagataaa tagcaataaa taaaagaagt ctaaggggaag agaggtatgc 60  
 aaacttgatt tatactgggtt cggccacttc tcgtgcctac atccagtcct caagcaaccc 120  
 acttgagatt ttccattctc tttgtaaaac tctttttaca aagtctgaac cacacaggga 180  
 caaccctttc cttgtgttca ggaatcctct ataacaagag acccacggtc tcttaatccc 240  
 ttttcagaaa aaagaagaag agaagaagaa atctctctta aaagagatag attgtacaat 300  
 gaagatcaat caaaattcct tattgcatat gcaagtgggtt gaccaaggaa tctttntgag 360  
 aagataagac agttcagttc agaaaaactc ttaatctttg aaaggataaa actttttggg 420  
 caatgaaaac tccctttgaa tttgtgtttc caagtcacct ttga 464

<210> 19227  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <400> 19227

gttgccataa agttactatc aagcgaagaa gatactatgt ccaatgggta tggagtatca 60  
 aaaaattcat gcttgcccga atgattgcat attgaacaga catgaattag aagatatgtc 120  
 aaaatgcctt acgtgtggga tatcacgcgt caaagtcaag gatgatgagg agtgtattag 180

tgatgaatac tcaacgaagg gccccctag caaaggatgt gtggatatctg tcgaacgttc 240  
 caaggtttaa gcgtctttat gctaaaggat acgacgctaa agatcttaca tggcatgcat 300  
 atgacagaaa ctgcatgga a 321

<210> 19228  
 <211> 237  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19228

cgctgatact gtcattccagg gattactaaa atatgggcct atnataaatt gntccaagga 60  
 gggttatgttt ctacgagagc tggaggaaat cttanaagta actcaacctg cagagttgca 120  
 acgttgatgt gtaccattgt tccaccaaatt aagtcgttgt ttgagcagtt cacatttaca 180  
 gggttgataa ctattactag tcttcagtag ttactactgt ctctcgtgat catatat 237

<210> 19229  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <400> 19229

agcttgatat tttgtgtttc aagaataaga gttaaaagat tattttattg agttagacag 60  
 tggaggaagt cggcaagaca ggttgggtgc gtagttggtg tgtggaatat tcaaagaata 120  
 atagaaaatg gaaaaaacia gaaatgagtc acctcgctcg ttgactatct gcgtataata 180  
 atttttcgtt ttttatttct gttgatgctc tgtcttttat aaccataaaa ttgtgggctt 240  
 ttgccagctg ccgtgaggtt ttaccttcta atgagtcag acagtaatga aaaaaaatc 300  
 ttttacttta acatatttac agaatagtaa gttcttctat atattaaacc aaatagctgt 360  
 gtaagttatt acctctatct tttttcttct gtaagacatg aatatg 406

<210> 19230  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19230

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 ttatagttta atatataaag tattttatat agcgtgtact gtaacgatac tttaacacct 120  
 aaatatatgc atgatagtat tcaccattta acacaacaaa taattgatat aagattaatt 180  
 tgatgaaaaa aaaaagaaaa agagattata cattcacatt tttgtgctaa caaaaagaag 240  
 ctaacaaaga caataaatta ataactgata ttttttaatt aaaaaaacac tcaacaaaca 300  
 aattaatagc taatatTTTT aattaaaaaa aactcaaca aatagtaact gatatttttc 360  
 aattaaaaaa aactcaaca tatagtaact gatatttttc aattaaaaaa aacttcaca 420  
 aatagtgcta gtagtgcag ctagatgata gaaggaaaaa gtggaaaaaa tgaaaaataa 480  
 ttagcaca 488

<210> 19231  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19231

agcttgtgca ttcaataccc tgatgaggat gtcccatatg ttcttaagac tggactgatt 60  
 catttgcttc caaagtttca tggccttgca ggtgaagacc cgcacaaaca tttgaaagaa 120  
 tttcacattg tctgctccac catgaaaccc ctagatgtcc aagaggatca catatttctg 180  
 aaggcttttc ctcattcatt agagggagtg gcaaaagact ggctgtatta cttgctcca 240  
 aagtcacatca cgagctggga tgaccttaag agagtattct tggaaaanaa tttccctgct 300  
 tccaagaaca cagccattag gaaggatatc tcaggtatta gacaactcaa tggagagagc 360  
 ctgtatgagt actgggagag atttaagaaa ctatgt 396

<210> 19232  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19232

tataagctga acatcaggaa aactgtagt attnttctat tntatacatt tatatggnga 60  
 acatagacaa aatcagaagc aggtcatat ttaggaacag aaaagagaaa tatcgctgtc 120



agtgttcac agaaattcta atttgcctcc taccaaaagg attacctcat aaatggcttg 180  
 ataattgatg gagtggtagt ttttttaagc aaagctatat atgacaagct taaaggcaca 240  
 taattgtaac aatctatact ctaccacacg ggaatccaca atgaagaaca ggctaactaa 300  
 agaatttaga ttataaaatt caccatcaac agtcgtgtag aaatgtgtct cttccaatat 360  
 cccaaattac cgaaacaatc ttttagtaac ttaaagagca actcatttcc atcatcacag 420  
 tctaaatctg aagaacagat gtgactgatg aaaaatgaaa cacacacaga agcagaaagt 480  
 aa 482

<210> 19233  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<400> 19233  
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 aacaactcaa tgttttgaag tgtgtgaact tggaggaagc tgatcatgag aataaaagaa 120  
 agatagaaat agaagagata gaagaaaaat tggaggacat gatttttgat atgtccgtaa 180  
 aagatgatga aaatcaagct ttgaagaaga aggtacaaga agctaaaatc gagctaaaag 240  
 atgctaggcc acaaattatt aaagtaaagc ttctgttctg agaaaatcct tattctaatac 300  
 cttataactaa agagacactt tacttcataa ttttattaaa ctttttactt taattattca 360  
 acttcacaaa aagtaattca 380

<210> 19234  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19234

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 ctantttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gttcccctct 120  
 ttcttttctg caaaaaagaa aatcaatata aaagaaaaca tggatgaaat cctaagaaaa 180  
 tcaatatcaa agaaaacatg gatgaaatca caattaaaaa ccacaactac caatctttca 240  
 gagtcctttg gataatatgt cttgtctcct tatgtgggtg agttttgttt aataatatta 300

tacttttggc ttccaaaaa aacttatgac tgatcctctc ttcattaatc ctattttaga 360  
tgttattgta taaaagatca taggttctcc acctgcctac actattcctc ct 412

<210> 19235  
<211> 374  
<212> DNA  
<213> Glycine max

<400> 19235

tttattttat attcctcact agcttatttc tcaatgtatt gcaccgaact taaatttata 60  
ttttattatt tataggaata tttttaatat attattaatg atttagtgta aattttgaag 120  
gatatgccaa taaatcattt atcaaattct taggtattat aatcgattta ggattctatt 180  
aaaaataaaa taaaatttaa taaatataaa ttttatatta attaaattat ttagaaaaaa 240  
taaataataa gtatcatgtc acatcactct cataaaataa aatcttatat atatatatat 300  
atatatatat atatatatat atatatatat atatatatat atatgcacaa gtttagtgtc 360  
tcataccttg cata 374

<210> 19236  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 19236

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tcaattgtaa aacatcatta atattcttat caatattacc atcatcgtca taagagaagc 120  
atatgaatct tattcgtcaa tctgattcac actacatgat tcaacacaca aatgcaatct 180  
atccaaaaat cttcaagtc ttatggttct tacaacaaaa ttctgaaaag ttttctagca 240  
ttgaaaaccc ccattttttt ttatcacaag catctcccaa tcctccttga ccaaaaaacc 300  
cacctccaca aatgtgatgg ttgacaacta tgttgttggg accccccccc 350

<210> 19237  
<211> 579  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 19237

acgcggcacc acactcgaac tgcgacactg gacgggcacg gatatcgga tcaacataca 60

aannnnnaaa gagagtgcnt ttgatgcaat cgataggaca nacgcgaaca tananaccca 120

agccacagga gtaacaagaa cgcttcagga gaggcgatga tttcatctac acgactcata 180

agctcaaacg cgtagctaag aagatgacga ccagagcgac gccaagatag aggcgagatc 240

accgcaagat gaaattcgcc ctccagaacc acgtgtcaag aggccagaac cagacaaga 300

cccacgcgag agaggacaga tagcaccocg gccaaaactg ggagcacagg agctgcccac 360

accttgacca aagagcgcta ctctctggaa ccgacaccac aaacgagaag gacaccacta 420

gcaaaaggga acagaaagca ttaacagagg gacgacgggc caaccgaacg caacacgggg 480

aagaccagac aaagaagccg gaaacaacac caaccggttg gaccgcggca accccagcga 540

caggaaagag cagcgccccg aacagaaagc tgcgtgcn 579

<210> 19238

<211> 306

<212> DNA

<213> Glycine max

<400> 19238

gcgcgagcaa gctttattgt tagctctaaa tgacagttca agctagggtc atctcagttt 60

accgtgcatt taccacagac tttagactta accttccaac catcaacgcc taactctttg 120

tgcactcata acatgacatt ctcgacttga tcacctacg ttagttgtac ccttgctctc 180

tgaccgcttt ccatccggga tacctgccta gccacatgac atacataatc agacaaaccg 240

taccacagaa tgggtatgtg taactcatcc aaacatggct atttcaacag gctctcaaca 300

agagtc 306

<210> 19239

<211> 473

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19239

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atctnttgcg tggcatttgt attggttatc aacttgactg atgcatctta ttacatttca 120

tatctatctt gcatgtggaa gcaaagctac catgatggta atcgattaca ccattatggt 180  
aatcgattac caatgaatgg ttttgaagaa aatgttaaga gttatagctc ttaacatggt 240  
tttctcaaaa ggtatcaagg ttctataaat ataagacctt ggcacgcatt ttatatatac 300  
aataacacag aaaaacacat ctgattacac agaactgtcc actgctattc tcttgcataa 360  
actttgccaa attcattcta agattttttt caatctttcc tagacgaaag gaaaattctg 420  
ccaaaacaca aactgtgcta tccttctgta ttctcatctt ttcttcattc tcc 473

<210> 19240  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19240

agctcgnacc cgggatctct aagtcacctg cagcatgcta gctttcttat ctgcctatg 60  
ctagntacca catgattcga gcagttatca atatatatct gcttatttaa aaaaatactc 120  
cattttttta taagatattg cctctcataa aaaattgggc gaattaatct cttaacatag 180  
ccaaccagca tgagatcatg ctctcagaca aaaagatctc acttgctcaa tcccagattg 240  
atatcttaag atgcattctt ctccaggtac ttaccagcct cagcctcaca tagctcaaga 300  
gctgttaaat ttccctgaag aaaatctcac agttcaacac atccaacaat ttttggggat 360  
tgtaaattat atcagagatt ttatccccag atcagcccaa tataccagtt ta 412

<210> 19241  
<211> 304  
<212> DNA  
<213> Glycine max

<400> 19241

ttgctttagt gtttcatggt ctagtctctc aaattttgat tcactcgaga gctctacatt 60  
gacagatgag gttacttggt taagggacaa attgacaact tctgaagaga atgtccagac 120  
attaaacatg tcatgcttgc atacatccaa atgaatgaag ggcattattc ttctgagttg 180  
ggtgctatgc ttggacataa cactactact gcagtttgta agtacttacc ttattctttc 240  
ggtaagctta ctatattatt aacacttgac atgatatgat atctatttta taggatgaat 300

<210> 19242  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 19242

agcttccata tcattgacaa tttcccggtc ttattcaagc tttcggtatc aacaaacttt 60  
 tgcataataa agtgataaac gtttttaaca ttgtaatccc tacttccaat aaatctccat 120  
 agccgaacat cttcttaagt aataaccagt gatggcattt tcatgatcgg ataagcatct 180  
 ctatgacaaa gaatttgatt aataatatca atattccaac atctatttgt agcatcaata 240  
 aaattttcca cttttttatt ctccacatca ttaatgagag gagtttcaat gaaaagatta 300  
 ctctctaacc tcaaccacga ctcaactccat aacgcaatat ttgcaccacc aaccaatttc 360  
 cacctatagc cttccttaac aacca 385

<210> 19243  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19243

ntagaaggat cactatttct ccgtgagagt gtccatcatg ccacatagcc tccatgcct 60  
 acaccaatta ttgttgata ggtatcatca ttttatgct aagaaaatca tgcacatcag 120  
 aaagaataag ttaaaatagt ataccaattg gtacaatagc accatctgag ccaccacaaa 180  
 gcatcaagtc ctgcaattac ttacattntt aatgttttca ataaaataac tatataatta 240  
 cactaaactt gttntaagaa ataaaagatt ggtaaaatat gagaaatcta ccatctaata 300  
 agcaaagct gaagtgagat acttacagct tcacctctaa tgatatgggt tgcagcattc 360  
 aatatacaaa aattactagt agcacacgct gtagagattg aataaatang gcccatccac 420  
 ccctaaagtt ttcatatgat aaataaataa ttgggttagaa gctatatata gac 473

<210> 19244  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 19244

agcttagtct attatcatag aagtcgtggg tagttttctg gaccacaaaa tttatgtagc 60  
cttttgtctt tttttttttt tttccggatg ttttaacttat ttgtctagtt catagcaatt 120  
tgtttgtgta ccatgaatat tcgatgaatg tgttgtatgg actcttcagc aattgacatt 180  
tatttgtttt atttcagttc taaggttgaa aacaaaaact tcgaaaatga cgctacaatt 240  
gaaagcaatg ttgtaaggat ttgacaaagg aaaaaatggt tgatctttaa tgggtgtcac 300  
ccttttctgt tgatgaagggt ttgccatatg ctctcaaagg gtggcctaatt gttggtgata 360  
tatggggata gaaagtgggg ag 382

<210> 19245

<211> 477

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19245

tctntanagc aaaagataaa tagcaataaa taaaagaagt ntaatggaag agaggaatgc 60  
aaacttgatt tatactgggt cgccacttc tcgtgcctac atccagtcct caagcaaccc 120  
acttgagatt ttccattctc ttgtaaaac tctttttaca aagtctgaac cacacagggg 180  
caaccctttc cttgtgttca ggaatcctct ataacaagag acccacggtc tcttaatccc 240  
ttttcagaaa aaagaagaag agaagaagaa atctctctta caagagatag attgtacaat 300  
gaagatcaat caaaattcct tattgcatat gcaagtgggt gaccaaggaa tctntttgag 360  
aagataagac agttcagttc agaaaaactc ttaatctttt agaaggatan aactgtttgg 420  
gcaatgaaaa ctccctttga atntgtgttt ccaagtcacc tttgatggcc attcata 477

<210> 19246

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19246

agcttgagat tatgaagtgt tgaagggtga aacttcctgc ttttattgtt gaccacagag 60  
tggtacctgg agatatgtcg cggggggtcag gagaccttgg ggacgtcagg tggggtgcta 120

ttgccccaaa ccaagcttga ccaatcccga cccaacccgg gcatagtcgg tcagtgagaa 180  
 cctgtgatgt acctaagcat gcgagctcct ggagtcac agataaaagg aacaaagacc 240  
 acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgggat atgtggatta 300  
 tggcctctgg taatcgatta ccaaggggtg gtaatcgatt acaaggctta naaatgaaga 360  
 taggaggcta agatgggtctc ttgtaatcga ttacca 396

<210> 19247  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19247

ctatgatact cagcttctat agaggctgga tctttgagct tcaatgaggt ctttcaatgt 60  
 tgatttctcg ccatggagat cagcgaaga taaaggagaa gaggtgaggg gaggcgcat 120  
 ctactagga ataagccatg gaagaaggag cttcgccacc aagagagtgc cttggataaa 180  
 aagcttgag tgggtgcttc aatggaggaa aagaatgaga gagagagaaa gagagagggg 240  
 ggagcacgaa attgaaggaa gaaaagaggg agagaagttg aactttgaag tttgtctcac 300  
 aatacgtca ttcattgaaag ttacaacaag tggtacacat gcttctattt atagactang 360  
 tagcttctctt gagaagcttt cttgagaaaa tctccttgag aaacttcttt gagaaaaatt 420  
 ccttgagaag atagagctta gctacacaca cctctctaata aactaagctc acctcct 477

<210> 19248  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19248

agcttgccat ttaattgtgt agtaattggc tctcactctc tgcttgacaa tcggaaggag 60  
 aagggtactgt ctcattatta gatcgtagtg atctcatgat tggaggaatg tttttactgc 120  
 tgtatttact gactgcatga ttatgtttcc agaccaacc tgggtggcctt ctgtttacca 180  
 agtttgggag caatcagaca gcactacttg atcttgcttt tccggtataa gaaccactgc 240  
 cattgctctt cttaccttga tttaaagctt gtgtatttct agcatggaag ttacagttct 300

tgtctttttc tgtaccttca cactattcat agctttttaga tctaaatcat tgtaaatatt 360  
ggtatatatn aaatgtagct tggctgcttc tggttcctta anggagtaat tatcaatc 418

<210> 19249  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19249

tgtgatatct gcanaaaggt tgtgtttgtc aattttgggc atgtttatta tctcaaccct 60  
aaaaatntaa gcaatgtcga taattntatt aacactactt ttcatttcac tgggtgcagca 120  
ttaattatgg gcttaacatt ctacagggca ttcaaaatga gaacaaaaaac ttaaaaaaat 180  
cactgaaggt aatttaatat tagatgttac aattataaac cttttotccat catattttgt 240  
ggagatattt tgcattacta ctggtatcca tctagtttct ttaccttgtc atgatttgaa 300  
ttgtggaatt gtcacctgta ttctttgaat tgtntttcca ggatgtgggt actgagaatg 360  
aatttgagaa aaaacttctt gctgatgtta ttccgccaac cgatattggg tcacatttga 420  
tgatattgga gctntagaaa atgtgaagga caccttg 457

<210> 19250  
<211> 332  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19250

agctttgaag agaattaaaa ctctagaaaa aaatgcttaa aaatctttgg ttagaatcgc 60  
agtcagcata tattctacac cataaagtat ttgcacaatc attctcatcc aaggctgcct 120  
tatttatcaa taaatatcta attagcaatg attaaatatt ccagattcta tcaaagcatt 180  
tatgagttat tacgacacag aagcatcaga tgggacttca acattntaac cacaagcagg 240  
tcaataaaac ccatttaatc tgcaagtcag tgttgatgc ctattcataa tgtgctatac 300  
tagtaagggtg gtaaccatat ctttatcttt ga 332

<210> 19251  
<211> 468



<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19251

nggaacanna tatttgaatt cttggtctcc ttagagaatt tgtaaagatg tctgctagtt 60  
 gatcattaga actaacgaat tcagcaataa cttccttaga aaggactttc tcttggacaa 120  
 aatgacaatc aatctcaata tgtttagttc tctcatggaa tactggatta gaagctatat 180  
 gtagggcagc ctgattatct caacatagct tcatttgttg agtatttcca aacttcaatt 240  
 cttaaagaag ttgtttaatc caaatgagct cacatgtggc tacagccata gctctatatt 300  
 cagcctctgc actagacctt gcaacaacat ttgcttctt actcttccat gagacaagat 360  
 ttctccaat agacacacaa tatectaaag tggaacgcct atcaatgcgt gatcctgccc 420  
 aatctgcac gcaaaattca actatttgag tgtttctttt gtcttcat 468

<210> 19252  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19252

agcttctttt tcttgagact cgccaaggct ntcttcttct tctccgcaa caggtagtt 60  
 ccccttacct ttgcttgta atgtgcagca ctatcacct taggtagaa gacgagagg 120  
 gagaagacga gagtatgccg gaaaaagtgg gggaaaaggc tgacggcgga gtcttccgat 180  
 agaccgttc cagatgaacc tcttccagaa agtttccgga agaagtgttc ttccggaagt 240  
 acccaacctt ttccggaaga caccggaac acctcttc 278

<210> 19253  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<400> 19253

gctgccacat acctctgtct gtctctctct ctctgatgtg ctttgcata ctcataaac 60  
 cttgatattg caatgttgca aataccataa tccaatcgaa actagtcaa ctttatatat 120  
 atatatatat atatatatat atatatatat atatataaag cttagggaac 180

actaaacaag agcgaccatg attaccagtg ggagcctgaa aggccccac ttacacatca 240  
 caactctcac acaaacaacg agccctctc tcgactaac caatacgtag ccacaaccga 300  
 aagacagatc atagatctca tggatataccg tttcgtacac tccatggata tcttcctct 360  
 tcccttatgt ataatactcg agtaacgctc aaacggatag gaggtcacta ctctctatca 420  
 ctctgatctg caggaatgat tagtcgcatt tgataaacta taccacaata gaacagatgt 480  
 gacag 485

<210> 19254  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 19254  
 agcttttctgt ttttctcgcc caggcgagca aagttgcttc ctccagaagc aacagccttc 60  
 tggagggccc aagtgggcct ggatgctatt tgcaccccc tttttactaa atgtaccgcc 120  
 ccttctatctt ttttctaatt ctttttctgt aacgttacga aactttgcga atttcataac 180  
 gatagttatt ttccttcgcg aaggttacga atccttacgg attatgtatc tactcttttt 240  
 tagctttcga ataagttacg aaaactcacg gattgcgcaa aaacacctct gttcgacttt 300  
 cgccacatta cagaatttca cggatcgcg caggcctgctt tcttttgatt tctgagacgt 360  
 ctcgggactt catttatt 378

<210> 19255  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<400> 19255  
 tctggaagaa gcctcttagt gaagcttctg gaggaagtct cttattgaat gttctagaga 60  
 aaactacatg aagctacctc ggtaaaaacg ctgcccagcc ttagttaacc gttggatctt 120  
 ctcaaaatctt ggtttgcaac ttcacaggac aaatcgacat aatctgaccg tcgggatcgt 180  
 tgagaatatg tttagagtgt gctagaagct tccgttctcg agagcatctt ttatttaagc 240  
 atttcagcct ttgctttcgt gtagcatacg aaacacgcca tttcttcttc tttctttctt 300  
 acaaagccat ttataaagtt ccaagaactt tatccatcac ccacaaccac cattatccac 360

cacaaatcat ca

372

<210> 19256  
<211> 578  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19256

tacgacccga cacgaagcac atcgacgcg atgcatgctg attgtcantc ancaaaaaaa 60  
naagagaggg ttgatgcatc gtagnncngac cgacacaaca cagccggcga atctgcgaag 120  
acgaagngac ngngacgcgc aaacaggttg atatctgaag cgccacaaat nacnccgagg 180  
acgagaaccc gtatgagcac caacgcaaca caccaactgg ngcagaactg acaaaaggac 240  
caaagcagcc aaacgagcag cgcccatgac acaaaaaacg aagaaaacaa acagaaggag 300  
gaacaaatga aacattgcgc tcgaaaaccg aaccgcgcca gaacttgaag agagcagacc 360  
attacaactg caaaacaaca acctacctca cctagacatg atcgaaaact ggagaacagc 420  
acatggaaac tcagaaacag cctaccacga cgcgagcact gagaatgaag atgggaaata 480  
cctacgcgcc gggaaaaaac gccacccgaa gcggggggca gagaacaata agaccaccaa 540  
agaggggaaga ccctcgagga agcgcgacgc acccatcn 578

<210> 19257  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 19257

agctttttga tattattgag tgtgtaaaat gagatcaatg cttgggtcatg gacaaatgtg 60  
tgcttatgaa tctaacttct tcataacatg tacagatttg atgcactaag gttgctagga 120  
agaatgagaa gaaagagaat aatgctggtg ggcgattcag taatgagaaa tccgtgggaa 180  
tctcttgatc gcttagtgcc aggaggtatt tgtatttggc ggaaaagagt gacttataac 240  
ggacctggaa tggccttcca tgccatggta agagtgccag acatgtatca caacatgggt 300  
tcttttcctt ctctgaaaaa tagagaccac ttatgtctac ctgaaggatt ttg 353

<210> 19258

<211> 224  
 <212> DNA  
 <213> Glycine max

<400> 19258

agcttctaac attggattgc acccttctctc acttataccc tcacatgtgg ctccctcttt 60  
 aacatttact tacttctgag taatagaatc ttcttcacgc aaagagatcg taaccttact 120  
 ctcaccaatt tccagcagcc taacagcggg catttgtact atgcatcaca tatggcggtt 180  
 ttggtatctt gcgcttactc atggatgcaa cggttactca tgga 224

<210> 19259  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 19259

cttaatttca atacaaggaa gcatgactta tgcctaggaa tctaaatttt ggttctgaat 60  
 gtaaaaaggc atgaatatta ggacatgttt gagagggtttt tttaacaattt aaatttggtc 120  
 gccccatgag gaatacctta cacctacgta gcatggaaaa tacctttcaa cggtatgtat 180  
 agatgtgaat ataggtagcg cggaatgcc atgcaaagcg tgtgaatata tggcatataa 240  
 ataccttgca aagtgtgaat gaatagcaga aaatgccttt cacaatatgt atatttgtgg 300  
 ataggtagca tacagagcct ttcaaaaaaa tgtacccatg tcataaatgg catgagaatg 360  
 ctgtccaaat gaatatatga tgtggaattg cccctcaagt gtagata 407

<210> 19260  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 19260

ttaacaagcc actcttctag gcctctactt atgttgcgaa cacaataagg agtccaacag 60  
 atacttaacc aaaagtaata acagaaatca aaatgcacac cggaagtaa aagagcacgg 120  
 aagaaagaga caaacactca cagagttttt atactgggtc ggcaacaacc tcgtgcctac 180  
 atccagtccc taaacgacct gcggtccttg agatttcttt caaccttgta aaaatccatt 240  
 tacaacaaa gatccataag ggatgtaccc tgccttggtc tctttgaacc tactggatgt 300

accctccact agaactgatc cacaagagat gtaccctctt atgctctcac ccaacc 356

<210> 19261  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 19261

tcaccaccaa gagagtgtct tgcataaaag cttatattga agcttcactg aaggaagaga 60  
atgagacgac agcagagaga gtacagagca cacatgacag agctggctgc gtagaatgat 120  
atgagaagca tcgggagaga ttgttgaacc tttgaagcgt gtctcagaag actctcattt 180  
atcacagtta tcacaagtgt tacacatgct tctatctata gcctaggaag ctttcgtgag 240  
aagcttcctt gatggaagcg cgcttacgat gctagagtta tacgcctcca atacgtaagc 300  
tcaccctcac gacacaatac atgaacgaag agagcgctct cgagaagctt cctgtgggag 360  
caagt 365

<210> 19262  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 19262

gcgatcagct cgtcccggga tctctaagtc actgcgcat gtttcttgct ctttatttac 60  
atagatgtac gcatttatgg gaggaggcta tatgacattc ttgctttaag agtaacgtcc 120  
cactggtaaa actaactttc caaatgtttg ccttcgcagg aatggccccg aggaagcttg 180  
cctcacagag gtccatgaac gacaaggcgg ccgagagaac tatttccgcc ccggagtacg 240  
acagtcaccg ctttaggagc gttgtgcacc agcagcgctt caaagccatc aagggatggt 300  
cgtttctccg agagcgacac gtccagctca tggacgacga gtatactgat ttccaggagg 360  
aaatagggcg ccggcgggtg gcaccactgg ttactctcat g 401

<210> 19263  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 19263

ctcgagagct tcctatgtgg aatttcgagc gtctcgatat attatacgcc tgaatcgaac 60  
 ctcagtgtta aaagttatga ccatttgaat ttctgtagag catccgttgt tcattttcga 120  
 gcgtctctat atgtgatgaa ccttaatcgg acctccgtgt gaaaagttat gaccatttga 180  
 atttctcgag agcttccgtt gttcaatttc gagcgtctcg acatattatg cgcccgaatc 240  
 ggacatccat gggaaaagct atgaccattt gaatttctcg agagcttccg ttgttcaatt 300  
 tcgagcgtct cgatatatta tgcgcccgaa tcggacat 338

<210> 19264  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19264

agctntgata tttntaatta tgtgccctat cgcaagatta tgtgattatg ggtttttagg 60  
 atttttttga agttactctt tgtgtatgtc ttatgacttg tttgtttgac acttacaatc 120  
 aatttctcat actgtgcaca tgtttcaatg taaaatgtat gggttgaaatt aattagggca 180  
 cacatctcaa ttacattaat cagttctatc aaaatcaatt ccaactcaact ttaaaccaat 240  
 ctgactctta gtggaacttc taccttatcc cattgattat tagactgggt ttcattgattc 300  
 gtggattgta ttgtgatggc ctgaaaaatg gcacatccat gtgggtaggt ggaatgaatc 360  
 caatcccctg cctgagcctg aac 383

<210> 19265  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19265

tcttccggaa gtcttccgga agaagcttct tccggaagtt agttttctta tntaatgcgt 60  
 atgtaatgac gattctgccc ttgtgtaaat ttctttaaat taacgtcttc aggctgtgtt 120  
 ttactgcgct ttctttcttt cttcttccgt ttgctttgat tcttcttccg ttcgctttga 180  
 tgcttcttcc gtttgctttg tttcttcttc cgtatgctga tgattcgggtg gtgggtccctt 240  
 cagcaatctg ttggtggtcc cgtgaagcga agaatttgaa gatatggagg acccgtgttc 300

<210> 19266  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 19266

atcactcgac ccgggaccc taagtcacct gcggctgcaa gcttgctttt aattctgatc 60  
 agaatcaatt ttctgatctt caaaacctag ctccggcttc ctcttcccca tatcaactat 120  
 gcagcttgcg gtcaacatga atggccttcc caatattaca gggatgtcag tatcttcaga 180  
 gatatccatt accacaaagt ctgtcgggaa gataaaatgt ttactctga ccaacacatc 240  
 ttcaattact ccatatggcc tggtaatgga gtgatcaact aattgtaaag tcatttgaat 300  
 gagcattatt tcccactctt ccaatctttt gcacatggag agtgacatca aattgatact 360  
 tggacccagg tcaataaaaag cttttccac tttgacttct tcaattgaac aaggaatagt 420  
 taca 424

<210> 19267  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 19267

tgtaatcgat tacacatata ctgtaatcga ttaccagagg agatttttat ataattttct 60  
 aaacagtcac gtctttgtct ttgggtcttg aatggctatg aaaggcctat atatatgtga 120  
 cttgagacac gaatttgcta agagtttttg tgaacaaaaa gatcttattc tcttaaaaag 180  
 caaaattggt ctatctctt acaaatacct tggccataac acttgtgatt caataatgaa 240  
 ttattagagt gctcaaattg ttcaatctat ctctttcaga agaaatacgt cttctcttct 300  
 tcttattcta aaaaggatta aaaactg 327

<210> 19268  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n. locations  
 <400> 19268

agaggctcttg tatatttgca tgtaattnta agttcaaacc ctcatcgtaa gaaaaaact 60  
 aaacacttat gatataaatt taatactatt attttatagt cattgtattc actatatttt 120  
 ttattgtcat gttataaata tattattagc agcatataag ctatccctat caagaggaag 180  
 gggcacacat ttgagttctt atacacttag taactataga ttccttacta tttggcaatg 240  
 cagataacga acgaaccccg actcttcaaa taatttttaa tatatgactt ctactagtgc 300  
 ttaagttacc ttcttttatt tttgaattta tgttctagct ctttagaaga cattaaccca 360  
 caaatatttt ctatttttaa aaaaacaaca agtgaattta atttatatta a 411

<210> 19269  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19269

actaagctan atagacgcag gaagcagaaa tagagtgctg gaagtaannt tctcaacttc 60  
 tgtttgctgc ttaaaagtac aattcttaag cctaagcgag caaattattt tcaatgggct 120  
 tcaaatecat tagtgattca ttgattcagc acaagatact tattcgagag tgттаacaca 180  
 ctctctaata tacttttctt aattagataa atattttttt aagacaatca taagtattct 240  
 taacatattt ctctgtccac ttaattacat tattagaaaa atataaaatt acaagcaaga 300  
 ttcattaaat aaaataaata aaacacaaaa ttttataatt ttttaataaat tttgattaat 360  
 atcaacaata cgttcaatag actgtgataa aacatgttaa ttagtaacat ttttcataat 420  
 taaccttggt tatttgtaga aataataaat ctttgcgagc tagaacttga aaaacaccat 480  
 ttactt 486

<210> 19270  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19270

agcttcttat ttaagttcat cttggtggtg aagctctttc ttccatggct tattccctag 60  
 tagatggcgc ctctctcac ctcttctcct ttgtcttctg ctgtatctcc atggtggaaa 120



atcaacatta aaggacctca ttgaagctca aatattcagc ctccatagaa gccccacaag 180  
 caagcttcca tcaagtggta tcagagcaca agagcttcaa gaaggtgctc cttaaaccctc 240  
 cattaattnt ttgctttacc ttctcttcta ttggtgcttc ttcatttttc tccatgtatc 300  
 tcctcacatg tcttgtgata aaatttggtta acatgaatct ttagattttt caccgaataa 360  
 acttgctatt aaagctagat ttgattctct atggctcaaa tttcttggtc ttggtcttga 420  
 ac 422

<210> 19271  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19271

cgcttggtggg gcttctatgg aggctggatc tttgagcttc aatgttggtc tttaatggtg 60  
 gttntccacc atggagatgc agcgaaagac aagggagaag aggtgagagg aggcgccatc 120  
 cactatggaa taagccatgg aagaaggagc ttcaccacca agatgatcct tggataagaa 180  
 gcttgagagag gatgcttcaa tggaggaaaa gagagagggg gagaaagaga gaggggggag 240  
 cacgaaattt aaggaagaaa aagggagaga agttgaactt tgagtttgtt ctcacaagac 300  
 tctcattcat caaacttaca acaagtgtta cacatgcttc tatntataga ctaggtagct 360  
 tccttgagaa gctctcttga gataacttcc ttgagaaaat tctttgagaa aacttccttg 420  
 ggaagctaga acttagctag acacaccctt ctcataacta agctcacctg cttgagaagc 480  
 t 481

<210> 19272  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19272

agcttggtttt gtcttggttta taattaagtt ttgaataatt tagaataact ttaaaatagt 60  
 ttaaatgttt gatttttaaat ctaatttttag tttattttgt tgtagaaata aaggaaaaaa 120  
 gaagagagtt gttgttgga cccaattgaa ggctctttta aaggacattt tttaggctga 180

tcaaattttt tctcttttat ggtatttga ctcaatgtgt atggcttagc ctacaacctc 240  
 ttaaattggt gcaacttttc tatgccact tagcgagcag gtgtgcatta agcgcacaaac 300  
 tcaattacat agaaatgaca atactacatg tttgacccta tntaagcacc aatgggtgcgg 360  
 atagaaggaa tatttgattg cgagaactat ctat 394

<210> 19273  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<400> 19273

cgtacggtta aagtctcacg atggtcacgt gctcatgcaa caattgttat tcgtggctat 60  
 acgagacatc ttgcgaaaca aagtcagggt agcgataact cgcttgtgct ttttcttcca 120  
 tgctatatgt agcaaagtcc ttgatctagt caagtttgat gagttggaaa atgaggccgc 180  
 aattatactg tgccagttgg agatgtatct cccccccgc tttctttgac atcatgattc 240  
 acttgattat gcatctggtc agagaaatca aatggtgtgg tctgttttat ctacgggtga 300  
 tgtaccagct tgagcgatac atgaagatct tactagggtg taaaagaat ctatatcgct 360  
 cagaagcatc tattgttgag aggtacattg cagaagaagc cattgaattt tgttcataat 420  
 acttacagaa tgctatacct gttgggcttc ctgagtgtct gcatgatgat a 471

<210> 19274  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 19274

agcttttaat gtcctatagg gacaagtcac aggtggaatg catggcttta aaggataaaa 60  
 tgaacgcttg tcaaactgca aaaagaagtt tgaccgaaca gctgagtaga aaaaagaaa 120  
 atatgttcac aatcattgac cagtataagg aaaatgaaac ctagctgcta ttcattggga 180  
 aagactaaag gatgagcatg cgaaagtatc ggctctacaa atggaaaggg aagcaagaga 240  
 gagagtgata gaattattgc acggggaggc gatgaaatgg atggatagat tcgctctcac 300  
 tctgaatggg agtcaagagc ttccaaggct gttagccaaa gcctatgcaa tggccgatgt 360  
 ataccagct cccgatga 378

<210> 19275  
 <211> 97  
 <212> DNA  
 <213> Glycine max

<400> 19275

tcacccctgag atccctcttg ttggactaag cccaatagtt attttccctct taggttcaga 60  
 caaacttaga ctgagtttcg ttcgcagatc cttcttg 97

<210> 19276  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19276

agctttatcg ttattcccaa agcttcatgt agacttgccc agaatcgcca agtgaacctc 60  
 ggatccctgt ctgatacaat actggaagga attccatgca accttaccac ttctttgata 120  
 tacaactcca ctgacttttc cattntatac ttcatattca ccggaatata ctgagcagat 180  
 ctggtaagtc gatctacata ttcagccaca tctttcttcc tgccatgcca ccaaactt 240  
 ctcttcaaatt cttggcacat cttagacatt ccacgatgga aactaagacg acttttatgc 300  
 gcttcttcca tgatctttac tgtcaaatca tctaaagatg acacgcatat gctcccttg 360  
 aatttaatta taccagttga gcctctcga actctacctc cttatcccc attt 414

<210> 19277  
 <211> 601  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19277

tacgaacgcg tacactgcag naggaagtat agtcacacct gatagcanga gantaaacnn 60  
 acaaaacccc nnaaagagtg gggtttgatg ccatcntagc acacacgnga caccananaa 120  
 cacncaagct cggagcgnaa gcaaaccaga agaacnoga gctcggatat tcgatcgagt 180  
 cccgtagtat atcacgacgc gcgagcagga agacagaagc gcttagcgga ttaaaacgac 240  
 aatgacgatt aactcggatg tccgattaag tcccgcata tattgagaca cacgacagag 300

aatacagaag ctgggagcaa atacaaacaa caataacaca taacgcgaat gaacgagtga 360  
 gggccgcaat aaaccgagag gcgcagaagt gaaaaaggaa gcttgcagca aaggcaatac 420  
 acaagaacga ttaacgcgaa gatccgatgg aggaccgcaa gataccacga cgctcgaaat 480  
 tgacacagag aactcagca caagagacga cactaagaac tacacgaggg acgaacgggc 540  
 aggcgaaaga agaatccgcc gaacggacta cagaacagaa agcaacacca acaggccgac 600  
 g 601

<210> 19278  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<400> 19278

agctgttacc tttatcttat ctcacagacg ctatatctgg gagccgatac agtccttgtg 60  
 ttccgactct cagccactta cgatagccgc cgatgatccc attactgctt cccgtaagct 120  
 ctctgtcctt tcttcacgcc gcatcccatg ccttgcgac tccttggagt actctcgcgt 180  
 agtggtcact agaaccctat gcgatcaaag gcctgatgct tgggtgctaatt ggcgctcctc 240  
 tcatgggg 248

<210> 19279  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 19279

tctatagaag gttcatteet aatttctcta caatagcatt tctctcaatt agctggcgaa 60  
 gaaaaatgtg gcatttacct gtggtgaaaa acaagagcaa gcctttgctt tgctcaaaga 120  
 aaagcttact aaggcaccta ttctagctct tcctgacttt tctaagactt ttgagctaga 180  
 atgtgatgcc tctggagtgg gagttggagc tgtattgtta caaggtggac accctattgc 240  
 ttatttttagt gaaaaactat atagtgccac cctcaactac cccacctatg ataaagagct 300  
 ttatgcctta atatgagctc tccaaacttg tgaacattac cttgttgaca aggaatgtgt 360  
 cattcatagt gatcatcagt cacttagcac att 393

<210> 19280  
 <211> 223  
 <212> DNA  
 <213> Glycine max

<400> 19280

gacattatca ttattacttc ttccacggtg ctggaacgta cttacatgga cttgatgggg 60  
 cctatgcaac tagaaagcct tggaggaaaa aagtatgcct atgtgggtgt ggatgatatc 120  
 tctagattta cctgcgtcaa ctttatcaga tagaactcac acaccttga agtattcagg 180  
 atgtgagtct tacacttcaa agagaatagg accgtgtcat caa 223

<210> 19281  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19281

cgtccttggt ttagacatga ttgatacatg atttgcgact tgtatgattg aatttgggca 60  
 aaattggatg agggaaagag tgattttcga aatctgcact ttatgcagaa ttttgctgtt 120  
 gaaatgtgca gcagaatttt gtataagtgc agaaaaatgc ttgtgtatgg atggttgtga 180  
 aaagggtagt acatatggag ttctggacat ttgctatcag atcccaacgg tcaaaatgta 240  
 gacttatgta ctagagactt ccagtaaaag tttcgagtcg atccaacgat taatgaacta 300  
 taacgaagga tatgttactg gcgtatttgt atgtgaatag ctgtgattnt gagttgtgtt 360  
 ttgggcagag atttctgcct ttgcttctgt tagcttgagt ttgttagtcc atgatgattg 420  
 gatgtggaat acctgaat 438

<210> 19282  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<400> 19282

tgcaagtttg cttttatattt tacaagatgc acatcggtgg gcagctacct catgcactct 60  
 tctaocgacc atggcatact tgctggcact aaattgctgg gagtctgagg ccatcttctc 120  
 aattaaatga atggcttcag tatgagatat gtgttcaaag gctacaccac tggcagcatc 180

tatcatactt atctacatat taccgagtcc ttcataaaaa tataggagaa acaacctgat 240  
ctgaaatctg attgtggggg caaccgacac ctaaata 276

<210> 19283  
<211> 307  
<212> DNA  
<213> Glycine max

<400> 19283

ttttttcact ttaggagacg gccattccgg tgttgagaa gatcaacgac aatgcctaca 60  
agattgactt gcctagttag tataatgtaa gtgccacttt caatgtgtct gatctatctc 120  
tttttgatgc agatggcgga gccttgatt tgaggacaaa tccttttcaa gaatgagga 180  
gggatgagga cataaccaat gaccatgaag cactggaatg tcccatgacc atatgcagac 240  
ttatacaagc ccaacgcgtc atagagacac ggctgggtcat ttgtatcgct gccattgatg 300  
atgattg 307

<210> 19284  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19284

gttgcgtnta aatccaagcc gtattggagt catattgaag ctgtttctag ccttaggaag 60  
ccgtatctaa gccgtatctt gtattttaaa aaataaaaat aaaataaatc ttttttggat 120  
actcctagga tactatccgg ccgtatccgt ggagtatcgg tgcggatac ggggtgcgaca 180  
ccgacacttt tccttttttc acgtatccgg acttcacagt agtttatcaa tggattctct 240  
nttttctttt aaggaagggt atttctaata taaaaataat taggtcttat aaaaaataa 300  
acatcatttt aaatttgggt ctttttaata agaacaaaag gagtattgtg tgattctaca 360  
tatccaaaat tgggtgggccc tgac 384

<210> 19285  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 19285

agctntgagc ttattctagt tggctcctga aaatgtgtct acagctgtat gcttaataat 60  
tagattctca ttgaaaaca tgctgtctgt ttgacttana taacaggatg tgattggatc 120  
atttgtgcaa gtaacttgca ctttttatga ttgtcttttg caccataagg tgttatggac 180  
aaactcttaa agaagagatc tatctcattt gttatgttct tttgcaatca agaaatacaa 240  
ttctttcttt tctctatttt ctaatccagc ttcttaacaa aatgtgttgt aaaatttgtt 300  
cattgagaaa gtagtgtcaa atctaagata acatgtttct attggcccat gattacactg 360  
ataatatgca nggatagtat acctaattc 389

<210> 19286

<211> 489

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19286

acctatgata ctcagctgtt ctatagacta aatatgaaac tcacctatgt tagactttat 60  
taatcattaa gtgagtcttg caagttacca aaaaataaat gatattacat tnttcaaatt 120  
tctgataact cgttggattt aattttcacg tgattttttc atgtttatgg ttctttttta 180  
tttgaacgtc ccttagcttc tacggtttca tataactaaa tcaaacaaaa caaatttcac 240  
atctcgaatt gataaaaaag gattcaaaat tgaaaatgat cattgtttca gaagaattat 300  
tttggctcac ttaacaaata tgaatgatta aattcaaag taaaaaaata agatatcata 360  
ctaaatataa tcaaatatat aaaggactaa aagtatatct taacctatct ttataataa 420  
ataattatth ttattatata nattatattt ttgaatttaa aaacataatg aatcttatta 480  
tctaaatat 489

<210> 19287

<211> 377

<212> DNA

<213> Glycine max

<400> 19287

aaccggagag aacaacgcat ggaaggaaga attgatgtta gatgacacat aaccaaagca 60  
ttagaccaa agatgacgat acagagaatg gatthttgaat tgccgaccac gcctacagtt 120

gcagcgcatt cgatgttgta gaatagcggc caacggacac actttaccat gattgacctgt 180  
 gatccgtaga tattaagaaa atatgcctac aaacggcggtg aggagatgaa tcgcggaacac 240  
 atagacccca aaaacctgga catggaggggc ggatgcggtt gcacaacatg ctttaaaacc 300  
 ttgaacacag tatggcagtt tgtgaggtat ctgcactgcg ttcacagatg ccttggggaga 360  
 gatcttaaat tgtggtc 377

<210> 19288  
 <211> 587  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19288

gatctcacga tcgtacacac tcggatcaca cggcacagga tagcataacc gaagtgtatc 60  
 gatgtaaaaa anaacannnn nannnaagga gaggggnttg gatggcctcc gnanagacan 120  
 gacacnanan annacncaag cccgcaccgg ggggggaagc gangggacgg ccaancgagg 180  
 agcntattac tgcacaacaa aaaaagacca cggaaagcaa gaaggacgag caagacgaga 240  
 tacacaagcc atagatgctc accgcaagac ggaaccacaa gagagaacac cggccacacg 300  
 aggcgcaggg cgcaagacac cacgcgaaca cgaacaccgc aaatcaagaa gagcaaacaa 360  
 agaaaaaac gcgcgagcca aaccacacaa cgccccagcg gccacagggc ccacaaccag 420  
 aggacccccg ggaaaaaaa ggcccacaag aacccccgaca ctgacggcgg gaccacacac 480  
 gagaaaaaga gcagcccaa aaggaaagag cacaagcaac aaaaaacgaa gccacacccc 540  
 acgcgagcgc aagcctggac agcacgggca aaacacagaa cccaacn 587

<210> 19289  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19289

agcttcaatg tatatctata ctcttcctcc tattcctcaa taaaaagtca ggatcagatt 60  
 tcaacacatt caaaggaata ttangaaatt ttcttttctt tattcttcct tttagtcaat 120  
 aatttattga acaaagttat attatttcct aataaataag caacctcaag aagtttgctc 180



aaacacatac caaggagtca aggactctaa ttnttagagg aatcgaagga tatatatgaa 240  
 agatataat gggatttcct gagagactgt ttaaagttat ttgcaagaat aacaaaaagg 300  
 cataccaaat catgcctttt cagttccctg gtaatcttct tagtattgac ccattcatac 360  
 canagatttc ttttcagtac aaagttgcaa caaactg 397

<210> 19290  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19290

tgcttctaca ggatgggcaa tggttgaaga aggacgcaca acctctataa gatgatcgta 60  
 ctccccctcc tctcctcaa tgagatgact cctcagccct catgaatgaa gttctttcaa 120  
 agttacgagg cctccaaacc tatgttggtg aacgctntga ttccttgaat ggtcgtatcg 180  
 atgccattga tgctcgcttt gaaggaatgg ataccgcgat cactcagctt gaggaggatg 240  
 tgagttatct tcgtcgggtgc ttcgactttc ctccaccatc ttcatagata tagagtatta 300  
 ttatctttga ttntacgcca tgtaacgcca tgtatttggc tatgtgtttt aagtcattat 360  
 tctttgaact tagttatatt tcagtatttg gcacttatgt atttatgact ngaatatatt 420  
 taattttgac ttatgaatgc gtatgtgaac tttattata 459

<210> 19291  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19291

agcttggtat ttattatata aaatttggtg gctcttcttt gtagtttccg cctttccttt 60  
 tgatcttctg gactaatgtc attttgtatg tattctaaga ttgacgtcat ctagttttct 120  
 tgcctttcta tcatcatgaa gaatcttggg gtatgtatca tttgacatat aacactttnt 180  
 atttctttgt gctcttcaat attagatacc tttgacaaaa gtcactctctt gcattttctt 240  
 ctcttggaat gtaggtgaac tccatatttt ttaaattttt ctttgattac cccaattttt 300  
 tgatgtattt ttgcaagatt ggttctttga cttggtattc tccattcaat tggttgagcc 360

aacaagttaa gttcgttgga cactnttagc actttgacct ctatgtaagt actatttct 419

<210> 19292  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19292

ntntctaagc gtttctacac cccaattttc tccgcctttg gcaacatcta taagccaaag 60  
tacttgggaa tcaatcacia ataaaaataat gaagtatagg aattacaaag tataaggcat 120  
aaccaataaa aatcataaat acgacataac caaaccagaa tccaaacagt tcaaaattca 180  
aaaaccacat agtatcaaag cataaaaagtc tgaaatccaa atactgcaag ataaataaag 240  
tactgaacat aataatctaa gtagcatagc caaataagag acatagaatt agaaactaaa 300  
ttctaagaag gtagaggtgg tgggtggaaga tcgaaactct gacgaatgta acccacatcc 360  
tcttcaagct gtgtgaggcg aatatccatg ccggcaaaac atgtatccaa tgagtcgaaa 420  
cgttcaccaa cata 434

<210> 19293  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19293

agcttgtgac tcttgtcaat ttcataaaac tagttactta aaaagttgtg acttttgaaa 60  
aaatcttcat aaataagtca cttgaagaat tgtgactttt ggaaatatat ttttcgaaat 120  
tagtcactgg taatcgatta ccattaaggt gtaatcgatt acacatcaac agatgcaact 180  
cttcattttg aattttgaaa attaaaatgt ttagaagctc tggtaatcga ttacaagtat 240  
tttgtaatcg attacacaag tttaaaatac tttaaaactg tttaaacata agttataact 300  
cttgaaatth gaaatattac cgttttaaga cactggtaat cgattactgc cttctggtaa 360  
tcgattacca gagagtataa ctctntggta atgattctgt ganaacttct tatgctactc 420  
aatattctgg aaaaac 436

<210> 19294  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19294  
  
 tgtacgagtg tgagaaacat cttcttcgac cttggagatc cttgtctcta tctcattgaa 60  
 tcgcatgtac acttgtaact ccaaggtatc aaacctttca ccaacaaagg tttgaagacc 120  
 atcaaacctg tccaaaatct tntgaagaag agaggaatct tctccaccat gtaagtgtcc 180  
 ttcttcacg atgggttgag cacccttttt cacccaagag ccatcatgct ctttacggta 240  
 accaaaggat gcaatcactg cagcacctat tagagaggat ctcttgattg gaacataagg 300  
 ttcaaaatca agagggatgt tgaagtgttg aatatagagg gtgactaggt gtggatatgg 360  
 caatggagca tttaatcgca atgccttatg catgagatat cagactaagt gttcccaatc 420  
 aat 423

<210> 19295  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19295  
  
 agcttttagt tgtttgaaat gtctggcata gcgtcgaaga agtaattatt aacggtttac 60  
 tgaaacttga atgttgctgt aactaagttg ttgtgcaaat gttgtcttgc cctaacaaag 120  
 taatgtttga atgtatgact atatataatt ttactttgcg tccacacacc atatatgatt 180  
 tttcatgttt actgagaagt taatagatac atactgcttt ttagtgtcaa taacttagat 240  
 aataatgtgt aatttcacaa aacttcaaga gtgtgaaggg aatttgctct aataagtata 300  
 actttggcat tacaaagggtg attattttgtt tttgaacgag ttctcaaaca gcattggaga 360  
 atgtagctat gattgggat 379

<210> 19296  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19296

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cccgccatag taatgagaaa caggagcatg tctcagagta acaacatata catcaccaaa 120  
ataatatacct atagtagata aataatcata ttcggatgtg cctaggtaaa taacaaatgt 180  
ataatgatta cacctcacag aacaacatgc ataaatatac cagatctaaa cattatgcaa 240  
gttattctga cctaggttgt tgtcaagagt cttggtgaac tgggtccaaag ctggagaaac 300  
cttcaacctt tgcttcagaa tctctctcgt cctctgaatt tgaacattct ttggccactt 360  
catgaaccga gtcaagtctc tcttcgaggc aacgcccctn cgattctgaa cctctttgac 420  
gcttctcaac agcagatttg aac 443

<210> 19297  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19297

agcttcttat atataagcta catgaagctg cctcggtaaa aaggctgcc agccttcatt 60  
aaccgttga tcttcacgaa atttggctg caacttcaca aaaaactttt ccatgatctg 120  
acagttggga tctttgagaa gatgtctgga ctgtgctaga agcctcttaa tgaagcttct 180  
ggaggaagcc tcttaatgaa gcttctagag aaaactacat gaagctgcct cggtagaaac 240  
gcttcccagc ctctgtaac agttggatct tctcgaactt tggtttgcaa cttcacaaga 300  
cactttacca tggtttaacc gttgggatct ttgagaanat atctggagtg tgctagaagc 360  
ttccgttccc gagagcatct cttatttaa 389

<210> 19298  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19298

ngagatgagg aagtgtagaa gggtgaaact tcctgctntt attctttgac cacagagtgg 60  
tacctggaga tatgtcgcga gggtcaggag accttgggga cgtcagggtg ggtgctattg 120  
cccaaaacca agcttgacca atcccgaccc aaccgggga tagttagtca gtgagaacct 180

gtgatgtacc taaacaggcg agctcctggc agtcaacaga taataggaac aaagacgaca 240  
aagcatggag gcttgtgtgg tggctggcca gctgtgaact ttgattgata tatgggatat 300  
ggcctctggg aatcgattac caaggggtggg taatcgatta caaggctcaa aaatgaagat 360  
aggaggctaa gatgggtctct ggtaatcgat taccaagggg tgtaatcgat taccaggctt 420  
gataatgagg tcaggaagct aggggagctt ctggtaatcg aataccacgg gat 473

<210> 19299  
<211> 282  
<212> DNA  
<213> Glycine max

<400> 19299

agcttttatt attatggact gacctcgaat caattgcttt gatagccctt tcagagccat 60  
cgttcccttt cctgtgattg aagctcacta ctagccttaa ctgaataacc atgatatgac 120  
catatactta aggaatttag gagctgggga atagtattgg gaataagtat gggggtaata 180  
tgttgcattg gacaacttgc tatgcttgct atgactaatg atgcatgcat agccatactt 240  
gatatacggt gtatattgca tatatgttgg acatgctgaa tg 282

<210> 19300  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 19300

tgcatatgga attgcatag ctctctcca tcattaggat ttgtttttgc catctcaaac 60  
aaacaaatca aacgtatcaa gacaattata gttgttgttt gaatacctga cccactcaag 120  
tgtatcacac aattatggat tttctctaata gaaacactct tgccttttac cactctaatt 180  
ccccttcagt tcttatgcaa ttcaagagat tatggccaca gcaaagaaca attcaccaat 240  
atgtgtaagg taaggctgga tagacaagga taaggtttac caagaaaaac gctatcaatg 300  
tttttatgca cacgtgaggg agataaaatt cataattcaa gaattcaagt aacaatcctt 360  
catgcaacca atatattatc ttagagagat tattatttaa tagtctt 407

<210> 19301  
<211> 302

<212> DNA  
<213> Glycine max

<400> 19301

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ttccacatct acactttctg aattcatgta taacattact aacaaaatat atatatatat 120  
atatattgat agtgaatatt tattgtataa tttaaattta taaaaatatt ttatgcatta 180  
gatcatgggtt ttataaaata aattatttgt ttacaatct gggatgtgaa agtagatttc 240  
ctatcatgtc taatagaatc atgttttttag agggatcaatg tagataagca catatatgga 300  
cg 302

<210> 19302  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19302

tgtaggatta tggngtacct atcacatgtg gtactagggtg gcgttctggc gatggtgcac 60  
aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccgctggt gccacactgc 120  
aactgagctc acgtactccc acgtagccca tatcctcggt gctctcaaca ccgggtcccc 180  
atcaatcctc ccaagcttcc acaacatcca agcaaaacaa cattcaaaca gcacaagcta 240  
tcacagccaa gcgaaacaga gcaaaggcag aaaactctgc caaaacacca accaaatcac 300  
aactgttctc acttagagac cccagtaaca attccttcga tccaattcgt taaccgttgg 360  
atcgactcca aaattgtact ggaagtctat agtacatgaa cctacattgt gaccgttggg 420  
atctactagc atacatacag aactcattct ggactactct ttgcacagcc aaccacacac 480

<210> 19303  
<211> 191  
<212> DNA  
<213> Glycine max

<400> 19303

gtatcgtact atgacgtgaa atatcctgta taatctattg acatgataga ttgatgtggt 60  
ctctgtgcta tcatgatgtc agtcaagtgt gttctggcct tgatcacgta gccgcatgct 120

ttacttcgaa cgatcaattg agaatatagg tctgattcgt acatattgat atgagcaggc 180  
gagtatttcc c 191

<210> 19304  
<211> 412  
<212> DNA  
<213> Glycine max  
<400> 19304

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttttggat aaaagggatg 60  
ccccacatta tttccatgac acaaatgcaa aaatgatgat ttggaaactt tacgcaaaac 120  
tggtcatgca tgcacctatg cggacactca agtgtcaaatt ttttatggcc atgtgatgct 180  
agggctcagg attcgtttcc tctattctaa tcaacccaat gtttccaaaa tatgttcttt 240  
tatcaattcg tgcattcatc cgagttcatt tcgggcgtcc ggtgaaattt cacagcattc 300  
acccttcatg tgtagacaca tattccacaa attggttatg atcaatgaac tttttcaaag 360  
acaatgtgga aatcgtctct tttcaaaaagc atgttggttt tcagcttaac aa 412

<210> 19305  
<211> 387  
<212> DNA  
<213> Glycine max  
<400> 19305

tgttttctta tgtctttgag aagcgggaga ccggaagacg ccatggagcg atgatatacg 60  
aagaccctct cccgtcgact agtgctccgg aaggaaacat caagatcgac gggacattcc 120  
tcatggatgt aagggggggtt atgaacaacg cctgtgatcc cgttgctgat agatatattc 180  
ccacatctag cgatacatga gtctgcatca tctcttccca cgccttgaga ggaaaccgag 240  
gacgatcatc tgaccccata ggagaattcg acatctcggg cagcacaacc tgctacatgt 300  
gacctccatg ccctgatacc aaatttagtc ggattaagag cccattgtgc atctgccgcc 360  
tgaatgccat ggccgaagac tacaagg 387

<210> 19306  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19306

tgcgcatact gcgtcaccaa cacacagctg gcttcgagac ttcttagacg atagaacaca 60  
gcaccgctat tctatgtncg gcaccttgcg caccatacat gcgttacctg tacctcaact 120  
gtgaatcgag ttcatacatc cccctactat cccattgctt atgttgtata catgctcctt 180  
ctacaaactt tgaattgcgc ttattccatg cccacgctta ataggattac taatgcacat 240  
accttctcac cctcatgac aaagcattgg cttaaactta tgcctataca cgaatctaaa 300  
taacacctta atgtgcttac tgagatgtga tactatgtca ttgcccacat gccaaagcct 360  
aggcaaaact cataatataa ttgcaagata attatactga ccatagggtg tgacgggtggg 420  
tatatagggg aaaacgcgct taatcactct caccgttctt tcccaaccat gcg 473

<210> 19307  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19307

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acacgatcca tgattcgatc atcttctgtg agaaattgac gcggaatgac tggattaacc 120  
acaaacctct gcaacttatg cgatttaatg actggttcaa cgtgttgctg ccagtgtaga 180  
tagttggaat catccaattt ctcagctatc gttgtcgga atgaatgcga actgaaacct 240  
tgagatgacg aagccatgta tgtgaagggtg cagctcgata aactgaagag aggagctttt 300  
atgaagtaac aagctntgat accatatcan aattagagaa ctaagtgaac aaagagaata 360  
agagaaaaca tt 372

<210> 19308  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19308

tagaacagta tacttggcct tcatttaact gtctttggtg tcttggtggc cagctcaac 60  
aaagtacttt cgacacctac tgtacattga tttaccaat gctgttatgg gaatgttgcg 120



[illegible]

<400>	19309
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<400> 19310

tc

362

<210> 19311  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 19311

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 gaatctctgc gagtatcctg ccaaaccag aaaactccta atctctaaaa cagatttggg 120  
 actctccac tcaagaacga cttctatctt agatggatct acagctatgc ccccttgaga 180  
 tatcacatgc cctaggaaac taactttctc taaccgaaac tcacacttgg acaacttagc 240  
 atagagttgt cgatccctaa gtgtatgcag cacaatcctc agatgttctt catgttctc 300  
 tctagtcttg gagtatacca aaatatcatc tatgaatacc accacaaaac tatcaaggta 360  
 aggggtgaaag actctattca tgtagtccat aaacac 396

<210> 19312  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 19312

ttgtgtaatc gattacactt atttggtaat cgattaccag tgactgtttc tgataaatca 60  
 aaagatgtaa ctcttcaaaa aggtttttga ctttttcaaa ttgttttttg acttcttcag 120  
 aaagtctaac cacttcaaga ttcgtggcct cttcaaatac cttgtttcct gaaggaaatt 180  
 ccattcacag accacccatt ttcaatgggt agggttacca ttattggaaa acccgtatgc 240  
 agatattcat tgaagccata gatctacata tttgggaagc aatagaaata ggaccacaca 300  
 taccactgt agtagatgta agcacaagca ctacaacca taaacctaga gataagtgga 360  
 cagaagaaga taggagaaga atccagtagt caattacatg ggatatcatc ccaggaacaa 420  
 tttcag 426

<210> 19313  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19313

agcttattat tggacatttg aatgaaatga attttgtcaa aattttgtta aagagctacc 60  
 agttaaatta cgaaaaaatt ataatatatt atttttttgt aaaattagcc atgagagttg 120  
 aaagatctaa acgagaactt tatatatcca tctttatgag tgaaatttct tcaaattctg 180  
 aataaatgaa caaaagaagt aggcaatata ataagctata aagaaaggaa caaacctcta 240  
 ttcttggaat tggatgaccg tgagttgtga tttgtcttta cttgtcacta ttccaaatcg 300  
 taagcaataa actgaatgtg agaaataaag agcagatttt ggaagaaagc aganatattg 360  
 tggcaagcta aacatgattt aaggatatgg atggcgtact actagtcc 408

<210> 19314  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19314

ntacaaagca gcagcttcaa aacgagcgaa gtattcataa aggagtatgc tgagttgcaa 60  
 atataaagaa gaaaagagat gggaaaaaag agtacttgct gacaaacagg agctttcctc 120  
 attcttagtt cgtctcacia caaaggtaag atccttaata tccttatcgg ttacttgccg 180  
 ccagtgtttt aatttatcca ttgctgaaat gaatgcctgt aaataaatat atttgcattg 240  
 taccaatatg tctgttccta actctttttt tttttttaat tatcaatttg ataccaata 300  
 tatattaaaa gatcttggct tgtgcgtgct gtttggatgg gttaaagtgg tgatgatgga 360  
 gtttgagcag tgacgttggg ggc 383

<210> 19315  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 19315

agcttaaaca ttcactttcg agcctctcga tatgttacgg gactcaatca aacatccgag 60  
 aaaaaagtta ttgctgtttg aatttgctca gaggttcaac attcaatttc gagcgtctcg 120  
 atatattacg ggactcaatc agatatccga gtaaaacgtt attgtcgttt gaattggctc 180

agaggttcaa cattcatttt cgagcgtctc gatatgttat gggactcaat cagacatccc 240  
 agtaaaaagc tattgtcgtt tgaatttggt cagagattca acattcaatc tcgaacgtct 300  
 cgatatatta cgggactcaa tcagacatcc gagtaagaag ttattgggtcg ttgaattggc 360  
 tcagagcttc aacattcaat ttcgagcgtc tcgatatatg acgggactca atca 414

<210> 19316  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19316

ctgagccaat tcagacgaca acaactttnt gctcagatat ctgatttgtt ccagtaatat 60  
 aacgagacgc tcgaaattga atgttgaagc tcttagcaaa ttcaaacatc attaatgatt 120  
 tactcggatg ttgtattttg tcccgtcata tatcgagacg ctcgaaattg aatgttgaac 180  
 ctttgagcca attaaaacga caataacttt ttactcggat gtctgattga gtcccgtcat 240  
 atatcgagac gctcgaaatt gaatgttgaa gctcagagcc aattcaaacg acaataactt 300  
 tctactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgagat tgaatggtga 360  
 acctctgagc caattcaaac gacaataact gtttactcag atgtcggatg ggtccgcgta 420  
 ta 422

<210> 19317  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19317

agcttgaact atatctagtg agagtgtgaa cttaaactgt gagtgaacga ctaactgtga 60  
 gtaatgatct ttgcatgaat ctctaaattt tagaatgaaa tgtataaatg atgacatgat 120  
 gaaggccatg attgtacata cacaagctct tttagacaaa tagcttacct taaatgataa 180  
 ttgcatcctt tgctcccttt ttgagctgaa tgatattgtc aaaaaaaaaat ttgaaccctg 240  
 aacttaaata aatatctcct gataccttgc ttcgattcta ggagagcata tggtnaaga 300  
 caatttactc taaatttggg ggaggaaagt caa 333

<210> 19318  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19318

tcagcttcaa gctnttatct tagattagga atattgtgta atggtccttt gttgggcttt 60  
 tgtgatttct tctattattg tgtaactaga accttgtcgg acgaggaatg gtgaattttc 120  
 tgtagagtaa gcttatgagt ctctcagtct ctcaagcctt ttaatgcaca gcctactcac 180  
 ccagttttta gtgatagtca ctgggtggaaa ggagccaaga gaattcaagg atttctttgg 240  
 cgggtaagtc acaaaggccg cttacaaatg ctagaagatt gagattggga ttatctaaaa 300  
 gtgatttgtg cattgtgtgt gaatcccata gtgaaagtct catatgacac caattcggaa 360  
 ccatactttg gttgggtcaa acttggagct gttcttttga ttacatgatt ggcttgaatg 420  
 gattcactat aacttccaga atgttgcc 448

<210> 19319  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <400> 19319

agcttattga taaaatactt acttgatggt gatgaacaaa agcacgaaac ggaatcaaaa 60  
 aatacgaaaa atgatgaccc tagggctgcc aactcgtaaa tcccgtgggt atggcttttg 120  
 aaagggggga aaagaggttt ttgaatgcaa aaacgtcccc cctttcgtca ttcttataat 180  
 tcgatgcacg gatggctcgc ccaggcgagc taacctgcat ttttttttg agaggaacat 240  
 taaccatgtc cctccttcc ttatgattta acgtcttgct taacttgaac ttacttaagt 300  
 tagagttagg cgttgattac ttatttttaa aacaaacaaa tagtaagaca actgcgaata 360  
 caaaggat 368

<210> 19320  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 19320

tctccnctta tttgctataa atagggggag aagtgaagat tattatgggt caaccctta 60  
ggcacttctc tctctttcga atttgctgag gaaaattatt tccgtgaaga aaatccaagc 120  
cgaggcgctt ccgtaacgtt tccgtgagta attatgcgaa gattctcgac cgttcttcaa 180  
agattcatcg ttcgtttcttc gttttcttca gtcttcaacg ggtaagtacc tcaaaccaag 240  
cttttcaatt cactctatct acccgtggtg gtccacattn tgtttcatgt atttttattc 300  
tcgttttcat ttactttnta taccctctt tgacgtgctt aagccgttta tttaagtcac 360  
ttctcgctta atctaaaaaa taaaataaat ttccaccgat cgtttgaatc gcatcatccc 420  
gtaat 425

<210> 19321  
<211> 584  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19321

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agagtgggtt gatgcntcct ggacnacgga cctataaaac tcagcgtgag acagagctct 120  
cttcttgatc ctctcacaag ctcatggat ataccacaca ttcacttacg aacgccgtgt 180  
tgcaaaagca acgcaggtat cactatcaac ggtgatgtta ctttcacgta gcacataata 240  
ctgatctacc atcattcaca taatatcaat caacagcact ctttctctac ctctattac 300  
ctcccgtat atcatcgga tcaacggatc acacatctac angcgagacg atgagaacga 360  
atcattatgt gaagaataac aaaacagatt cctaagtact atgaaatcaa tgccagaaag 420  
acacacacct tgtcatcgct tataccaatc tgccaagtac caaggccaag cgtgattgac 480  
caaatagata tagcgaccat ctagatgctt atcctctctt acccagaaca aataccgaca 540  
caatacta at gacagtaacg acactccgaa acagagatcg atcg 584

<210> 19322  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 19322

agcttaacgc ttatttcctt acgaacgctc tcttgacaaa gacattttatc taagaaaaat 60  
gcacccatat acaatcaagg cagcttcggt acctatatta ttacacgta cttccaaggt 120  
gtatctgtta cttacatcac acacatctac ttggctaaat ttacatacat gcataactcaa 180  
agcatattgg ggtacccaaa attgcacatg tgcacatcat cgcattttcaa atacctatac 240  
atacacaaac ttcgatga atcttgacta tctacacaat aagggtgctac attccatgct 300  
tctttcaagt cttcgctacc taaacccgca tgcaaattca agcatattaa cctttgctga 360  
ctaaaatagt tttcacatta gaggggtctac atttttttgg atgtatttct ttactaacat 420  
g 421

<210> 19323

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19323

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atttccagca cctaacacc gctcattttt actatgcac acatttggtt tttttgttat 180  
cttgtactta ctcattgatg taagggttac tcatggatgt aaggagtcag gtaaattcgc 240  
tatttaaagt attataacct tccatcaatg taattttggg cctctactgg cttattcctt 300  
aacctttgta tgcattaagg ctcaaggaat ccatgcatat caccaagccc taactgttga 360  
cttatttaat ccatatancc taaatgtgga aatattaat 399

<210> 19324

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19324

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tttgaaaca atggttttgt caagttcttt aaagaggttc aggtcattgg ttatatgggt 120

tgtgcagccg ctgtctatta accatgaatc actggaacta ttgcttgtgg caaagcatgt 180  
 tgtgacaaag agttgctcat cttcttgttc ctccacaacc acctttgctt cctttgattt 240  
 gaacttgcatt attcgtctta catgtcccat attgccacaa tttccgcact tgacatctgg 300  
 cctccaccaa cattttcttt caggatgatt tgtctttntg caatgcggac aaggaggaaa 360  
 ggtctcacct tgctgcttgt tggagccttc tagcttattg ttcctccatt agttgttctt 420  
 cttgtctttg ccacctc 437

<210> 19325  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<400> 19325

tagctttgag cttattcaca cgacactaat gtgttgctcg gatgtctgat tgagaccctg 60  
 aatacatgga gacgctcgac attgaatgat gaagctctga gcctagttcc acgacgataa 120  
 ctctttactc ggatgtctgg ttcagtccca tacttcattc ggacgctcgc aattg 175

<210> 19326  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19326

tcagaattca atttcgagcg tctcgatgta ttacgagact caattattac actccgagtn 60  
 aaaaagttat ttgtcgatgt gaatttgggt gagagcttca acattgcaat ttcaagcgtc 120  
 ttgatataatt acggaactca atcagacatc caagtaaaaa gttattgtcg attgaattat 180  
 gtctcagcgt cataattcta tttcgagcgt ctcaatagat tacgggactg aatcagacat 240  
 ccgagcaaaa cattattgtc gtttgaatta tctcagacct tcagaattca atttcgatcg 300  
 tctcgatata ttactgggtc caatcaaaca tctgaggaaa aaagttattg tcatttgaat 360  
 tcgctgagag cttcaacatt caatttggag cgtttggatg tattacggga c 411

<210> 19327  
 <211> 380  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 19327

ttcttatacct taacacatat ccaacttatt acatcacaaac agattaatta ttaatatcta 60  
aatttagttt ctgttataat tttaattaaa atattttaatt acataattag tgaaaaaacac 120  
ggagctataa tcttttcatac atgattttct ttaatctttg atattttttt ttcaattttt 180  
atgcttttca ttattattca gtctataccta tttttcttta tttaatatct tccttgataa 240  
tcttacatcc ttataattt atactctatc atttttatat ctaaatagaa tcataataat 300  
ttgtttaaca aaaaaattct tatattataa ctcaacagct antatgtgaa agatgaatac 360  
aaaatataat gtatgtattc 380

<210> 19328  
<211> 205  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19328

ntaattaagt gtatcacttt tgttattatc atcatgcctt tgttttggtta acttgaagtt 60  
attttttttt tttaaatacc tgagggtcaat atccaagata tactaaatta ctaatataga 120  
tatacccaaa cacacatgaa gctatctgat ttgttcaactc agtttggtccc ccctgttatg 180  
gatgcataat agagggggggg agggg 205

<210> 19329  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 19329

agcttcctct ttaagcttct tatccaagcc actctcttgg tgggtgaagct tctccttcca 60  
tgacttattc tctagcggat gacgtctcct ctaacctctt ctcctttatc tttcgctgca 120  
attccatggc taataatcac cattgaagga ccttattgaa gctcaaagat ccagcctcca 180  
tagaagcttc ataagcaagc ttccaacaag tgggtatcaga gcacaagagc ttcaagtagg 240  
tgctccttaa acctccacta attttcagct ttactttctc ctccattgtt gttgcttcgt 300  
ttctctccat gtatctctc acgtgtcttg tgctgaatgt tgtaacataa tttttagaag 360

ttccaccgat tagcttgcta taaagctaga tt

392

<210> 19330  
<211> 394  
<212> DNA  
<213> Glycine max

<400> 19330

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gtaggttcaa acgtgactca ggtgtttgtt gatcaactac cgtgactaaa cacccttggc 120  
atagcttttg ctcgcataga ttttgacca tagggtttga acgctcccca cactcaccct 180  
cgcggcactg agatccttat agtccttgag ggtactcttt atgttggatt tgtgacttcc 240  
aatcaagatg gaaatcgctt cttcaccaaa gtgctgaaca agggatgatgt gtttgtgttc 300  
ccaattggtc tgattcattt ccaaataaat atgggaaatg ggaatgctgt tgccattgct 360  
ggccttagca gtcaaaatcc aggagctatc acta 394

<210> 19331  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19331

agctttagt ttattcgaac gacaataaca tttcactcgg aagtccgatt gagtcccgt 60  
atatatcgag acgctcgaac tttaaaaccg aagctcgtag cagatttgaa cgacaatgac 120  
atttcactcg gaagtcttat tgagtcccgat aatatatcga gacgctcgaa atttagaatc 180  
gaagctcgta gaaaatacga acaacagtaa cttttcactc ggaagtccga ttgagtcccg 240  
taatatatcg agacactcaa aattttaaacc ccaagctctc aganacttct aacgacaata 300  
acttttcact cggaaggccg attgagtccc gtaatataac gagacgctcg aaatttaaaa 360  
ccgaagctcg tagcaaattc gaacgacaat aacatttc 398

<210> 19332  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19332

ntgggtntaa atttcgagcg tctcgatata ttacgggact caatcggtct tccgagtga 60  
aagttattgt cgtagaatt agctgcgagc ttcggtttta aatttcgagc gtctcgatat 120  
attacgggac tcaatcggac ttccgagtga aatgttattg tcgttcgaat ttgctacgag 180  
cttcgggttt aaatttcgag cgtctcgata tggtacggga ctcaatcgga cttccgagt 240  
aaatgttatt gtcgttagca tttgctgtga gcttcgggtt taaaattcga gcgtcacgat 300  
atattacggg actcaatcag acttccgagt gaaatgttat tgctgttagc atatgctgcg 360  
agcttcggta ttaatatattg agcgtcttga tatattacga ggactcatcg gacttccgag 420  
tgaaatgtat tgctggtaa attgctcgag cttcggttta attcgagc 468

<210> 19333  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 19333  
agctttcaat gtttataaaa accaaaaaac tttggaaagc ttttggcaaa aggaagaaga 60  
agaagaagtt caaagagact cagaaatcaa tgtggaaaac ttgcttgtga aaagaatgaa 120  
ttggaaaaga ttgattgata gaatgaatga atgaaaatgc aaaacaaagt cttgctttta 180  
tagactcttc atgtcttgtc aagaagacca tttagaagag ttataaattt tagaaaaact 240  
taaaactaat ttgaaaaagt caaaaacctt ttgaatagtt acatcttttg atttattcag 300  
aaacaatcac tggtaatcga ttaccaaact actgtaatcg attacacaag gcttttatgt 360  
gaaaggatgt gactcttcac attcgaattt gaatttcaat gttcaaaggc actggtaatc 420  
gattacaaaa ac 432

<210> 19334  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19334

ntaatggctt agtgaggatg gagaggtgca agtaaggaag caagtagagt tggatatttc 60

cattggaaag tacaatgata aggtgctntg tgatgttggt cctatggagg ccagccactt 120  
 actcttgtgg agaccatggc aatttgataa gagggctaata catgatgggt tcaccaacaa 180  
 gatctctttc acgcatcaag gcaaaaagat agtgcetcaa ccgttgagtc cacaagaagt 240  
 gtgtgaagat caaagaanaa tgagagagaa aattcttcaa gaaaagagag aataaganna 300  
 agagagccaa acacttgaga gttcataaag tgaggacaaa aagagggaaa cacaagagag 360  
 gaaaaagatg agtgaaacat ttgaagtggg ggagaattnt ctagctacaa aaggagagat 420  
 c 421

<210> 19335  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19335

agcttctttg agataacttc attgagaagc tagagcttag ctacacatcc ctctaataac 60  
 taagctcacc tccttgagaa gcttccttga gaagattcat aaagaagcta gagtttagct 120  
 acacacacct ctctaatagc taagctcacc tccttgagat gagaagctag agcttagcta 180  
 cacacccctt ataataagcta agctcacccc cattccaaaa atacatgaaa atacaaaaaa 240  
 aagtccttac tacaaaagact actcaaaatg ccctgaaata caaggctaaa accctatact 300  
 actagaatgg ccaaaatata aggcccaaaa gaaggaanaa cctattctaa tatttacaaa 360  
 gaagagtggg tccaaccttg acccatgggc tcaaaaatct accct 405

<210> 19336  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19336

gtangattat ggngtaccca tcacatgtgg tactaggtgg cggtcgggcg atggtgcaca 60  
 acaagttttc cacatccaca atgcgcgcac aaaccaccca tcccttggtg cccacctcca 120  
 actgagctca cgtactccca cgtagcccat atcctcgttt ctctcaacac cgggtcccca 180  
 tcaatcctcc gaagcttccc ccaacatcaa agcaaaactg cattcaaacc gcacaagcta 240

tcacatccaa gcaaaacaga gcaaaggcag aaaactctgc caaaacacca accaaatcac 300  
 agctttttctc acttaaagac cccagtaaca attccttcga tccaattcgt taaccggttg 360  
 atcgactcga aaattttact gganatcttt cgtacttaaa cctgcatttt gaccggtggg 420  
 atctactagc anacatccag aactcattct acattactc 459

<210> 19337  
 <211> 292  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19337

agcttcaaca ttcttagtct ttacctgctt aactaacact ttactcttca cgccaaagtt 60  
 aatctagaat tgtgaccttt tgtagttct ttcacctttt cattttaata gttaatatgc 120  
 tttattctgt ttctcagata gatcaactag tcgccagatc caaagaaagt ataagaagat 180  
 cgttcataac aagccatatg tatatgtgtt aagggtttct ttccagtttt gcagtctgtc 240  
 tttttctttc tcaagcttgt gaatcaagtn tgttctgtgc gactatgtac ta 292

<210> 19338  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19338

ttcttttctt cactggttct tggtatacaa ttgcaactat tntataatta tagaaaacag 60  
 tacgtgagag atcaaagtca gattccaagg tggccatgct aataattgaa acatttaagt 120  
 acttaacacc ttagcaaaca tgaccagaaa agggctttga tttaaattct tttcatgcca 180  
 tattttaagt gattttccct aacttgcaat atgccccgag aacccctta tatgaattct 240  
 acttcttaat cctatcatat tntgagttgt tttaaacttc tatttttctt attaaataat 300  
 gtaatggtgc agcctanaaa ggtaatgtcg tttgaggacg canagcaaag agcatgccag 360  
 tggaaaaagg caattgaagg actccaaaac cgggtgaattt attctgggtt tgtgaacata 420  
 ttctttttaga tatcctctta ttgttc 446

<210> 19339



[illegible]

<400> 19342

<210>	19343
<211>	463
<212>	DNA
<213>	Glycine max

<400> 19343

<210>	19344
<211>	203
<212>	DNA

<213> Glycine max  
 <400> 19344  
 gcctcgtcgc tttcattatt cctagctata atagagtgcg gcaactgaaac atattctatc 60  
 tatctatgca gagtaatgcc catgaccata gccctataac gacttgtggg aatgcttgga 120  
 ctctacctag tacctacagc aactgccta ctgacctgct aaccatataa agcagacctt 180  
 ccattggtcg aacataccat gca 203

<210> 19345  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19345

tataaaacta agcctgctcc ctaggcagga ccatcaacca tctagcaatt cttcattcca 60  
 tgttagcttc ctttctccct ttctttctta tacatagtct tatggtgtac ccctggccat 120  
 ctttgatttt cttttatct gcacctctg cttctgtatt tggacctctg gtttgtgttc 180  
 tctgttaact gccccttgtt cctcagcttt tgtaccagta ttacgtatgg tggataaaaa 240  
 attacaacaa agggagcata atgtagaatg ttcttattat gtcgtagttt tgaactgcat 300  
 aaagagcttt cntaagagtg tatattatgc taatgaaaaa cgatacgttc actgcacatt 360  
 caaaaatcat ttatgttaat ctctaagtat gcattataat attcataatt 410

<210> 19346  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19346

ttatcttaga tcttccatgc ccagctgata atgtcaatcc tgatactgct agaggatctg 60  
 gtccccacaa agacaaattt cacagttacc taggggtggt ggctagagat gaaataccaa 120  
 ttgtccactc caattggaat cttgtctcgg acaatctaaa gaaectaatt tacgaagaca 180  
 ttttggttaag tccttttaat acggtgtatc tttatcattg cttttataac acatttttac 240  
 atcactaatt aagttggtgt tatttaacac atttgttgta tagcagaaat ntgacatccc 300



tgaacgtgac aatgcgaaac aaaaagggtca tgtctatagt ggcaactaca tggaggcaat 360  
ttaaagtcttc gttgacatct 380

<210> 19347  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19347

ntgtctttct tagtactcat aattctacat taattatttt tcttgatgca tgattaacaa 60  
aactttaaca tgcagaattg ataagaggta aatgtcattg caacaatact atgtggtaca 120  
ttcttagtat gatcaccctt gcagaacccat aaagattgtg aataacaagt caacatcact 180  
tagtgccatg gcaatggtaa agccaattac gccatttcct taggcctccc acaaagctct 240  
taattctata tatatttata aaaaaataaa tcaaatttaa attatcaggt aatatattct 300  
attgcattat ctattattat ttgcgtagcc agattataaa attttaatta cacatagata 360  
tattataaat catttgagaa gtttataatt catttgacaa ttatagaaaa attagtttcc 420  
atctacttta aatcttgtaa aatcacactt aatgaatata atgattcaat ttata 475

<210> 19348  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19348

tagcttggtg atctttgctg ctgggttaaca ctgagcttgc ccaccctacc attactaagc 60  
atttcaactgc taatagaaga tgcaatggat agctttttct tgcattggtga atagctatca 120  
aagttcatgt ccacattccc ccagtcctt atttttgggg agcttggtga tcttgctttt 180  
gcttttgctg attctggtgc aaccatgtat gctgganttg catgatagct taattatgag 240  
tggtcctctc ccaactgaaca ctgcctccta tgaggaaaag atcttcttga accaagtatt 300  
ggagaatcca atccttcaac tggattttgc ctctgaatat tacttctcag ctttaagttgc 360  
cttctccat attcctcccc aac 383

<210> 19349

<211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19349

tagcattagc atgtgttgac actggatcac taatcattgt gtacgtgttt gttacttttag 60  
 tggatcctat caaagaacct ccgcttataa ctacaaacat agttctgtct gtttttgttg 120  
 tgtattgtca tgtggacaaa gttccatgcc atgtttgaga catctaagat tggcgtcttg 180  
 cctttgcccc gtattatatt ttgcaacatc ttcctttctt aaccttgtca ttacctcgaa 240  
 attntaatat ggcaacttac tcttgtggaa aataattttt aagaattaat ataacacttt 300  
 aaaattaaat ttagaatatt aaaaaaatat aaaacataga tataattctt taggtgctat 360  
 tgatactttt ctctgttag aattaaaatc gtacttcagt aatccacata ataaagatat 420  
 acatcataaa attacatcaa ttatcatagt gaaactct 458

<210> 19350  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19350

agcttttcaa ttaatctttg gctagctaca ttagtgcaat tacccttata aataatcaaa 60  
 gagcatatct tccccatgac catgcaccta gaatgaaaaa tgttctccct ttaagtttca 120  
 tctctatcct tacacacatt acccatthaac ctcttaacca taaaaagatc accttccagg 180  
 gggtgtacat cacattcatt ttcactctca ctagaagaac tagaccagct agaagaagat 240  
 aaactaatga tatccccatt acccaacaca accatagtcc ttttgctagg acattgngag 300  
 gcattatgac cctttcccaa acacttanaa catttaatag aacttacttt tgaagaagta 360  
 ggagtagggg tagaaccaca ccatactacg agagaggttc cctcttttac catttttaat 420  
 atccc 425

<210> 19351  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19351

tcaatgatnt aacaatngac tnggtagaat tgcccacgtc atgggtgtca tgcactgccg 60  
 cattgccacg tggaatgttg aaacttgaaa tttattatga aaatattgta ccctataata 120  
 acagcgtatg ctaattgaat tgtttaaaat taaattttga ttgtttatat aaaaaattat 180  
 cattacaaat ttttaaattt aaatccattc aaaataaaaa taaaaaatta ctcaaaaaac 240  
 taaaatttaa aataaattat ttctttttta tttttaaaat caaaccaaat cgtaacactt 300  
 atattaatat ttattatttt aattntatgt gtgtattatt ntaattttat aatattntta 360  
 tgatattatg tatatgaaat ttatataata tatatttttt tcaaataact ttctaaagat 420  
 atanntttat ttanatagat gaaaatttac atatctntat catanaaggg ttaatatatt 480

<210> 19352  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<400> 19352  
 agtttcatgt ttattcaaga ttgattcaaa gaagttctaa tgattacaaa tgtgatgaca 60  
 aaaagctcac aggttaataa cacttcatga taacaaagat gatgatctca agaatcaaag 120  
 aatgagttca agatgttcaa gattgaatca agaacatttc aaggttcaag aggaaatttg 180  
 atttctagat tcaagaatca agagaagact tagtcaagat aagtatgaaa acatgttttc 240  
 aaaaactgag taacacatgg attattctca aaacctgggt accaaagagt ttttactctc 300  
 tggtaatcg 309

<210> 19353  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19353

tctcttagac cttaggcaaa cttcaactc atcctttttt atttttctgt ctacttgaga 60  
 taggtccatt tcctctctcc ggagcttaaa ctgctgtcta ctgccccaca aagccctcg 120  
 gaatttgttt cggccatggt cttccctacg agcccttttg gtctcttggt ccaaggcctt 180

ggtagct atattacat ctctcagttc ggcattctct tttcggatct taagagttgc 240  
 tgatttgaac ctttctttga ctatttgggc ttgctcgagt tctaccctaa ggacctgcac 300  
 ctcttcgtct tccttcggtg cctcaacttc ccccccttta gtggttctca aactcgggag 360  
 ccaatccaaa ccttgatatgt gggctntcta ccacttacgg tagccgtcga tgggcctgat 420  
 gatactgcct ctgagttc 438

<210> 19354  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 19354

agcttgaatt tgaacaacag aagctctcga gaaattcaaa tggtcataac ttatcacacg 60  
 aaagactgat tcaggcgcat aatataatcga gacgctcgaa attgaacaac ggaagctctc 120  
 gagaaattca aatggtcata acttttcaaa cggaagtccg attctggcgc ataataatc 180  
 gagaagcttg aaattgaaca acagaagctc tcgagaaatt caaatgggtca taacttatca 240  
 cacggaagtc cgattcaggc gcataatata tcgagacgct cgaaattgca caacggaagc 300  
 tctcgagaaa ttcaaattggt cataactttt cacacgaaag tccgattcag gtgcataata 360  
 tatcgagaag ctcgaaattg aacaacgaaa gctctcgaga aatt 404

<210> 19355  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19355

tctggatata ttatgcacct gaatcttact tccgtttgaa aatctatgac catttgaatt 60  
 tctcgagaga ttccgttggt caattccaac cttctcgata tactatccgc cggaatcgga 120  
 cttccgtgtg acaagttatg accatttgaa tttctcgaga gcttccgttg ttcaatttcg 180  
 agcgtctcga tatattatgc gcttgaatcg gacttccgtg tgataagtta tgaccatttg 240  
 aatttctcaa ctgcttccgt tgttcaattt caatcttctc gatataattat gcaccttaat 300  
 cggactaccg tgtgaaaagt tatgaccatt tgaatttctc gagagcttcc gttgttcaat 360  
 tccgaccttc tcgatatact atgcgccgga atcggaactn catgtgacaa gttatgacca 420

tttgaagttc tcgagagct

439

<210> 19356  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19356

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aattaatcca tttgatttct catggaaaga tctatctaca tatattgtaa ataatatctc 120  
ccgttataga ttttctaagg ttaattcaac aatggaatca gctagcgcac gtgcattaaa 180  
aaggatttga tgctctgaaa cctctattgc ccaagaaacc atccttctcg ccaaatacaag 240  
tcggtgaaga atttgctgaa tggactaatc aattcacacc attatccggt gtgattggaa 300  
atatagtcgt aagcgtcttg ttgccattac taaagcanaa actaccttct ctaatgatct 360  
ttgaagttcg accccctgaa gt 382

<210> 19357  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 19357

tttctttcac aatcaatttg tctactgact aacaatttta aatgcatgtt cacattcttg 60  
ttctttctta gtctaacata cacacttgct caaactcatg ataagaaaca caaactccat 120  
cacaatcatg cacttaattt aaaataaaag catataacta ttttcacaaa aagataaaaa 180  
gtgttttact accatgtcat caaaaacaag tcaaactatt caaaatgctt caggataagc 240  
aaactaacta ccataaata aaactagcag tgtatgtaga cctaaaggaa atattgtatg 300  
aaaacaaaa ttgtaataat aataataaat caaaaagcaa aaagtattat caggaatcaa 360  
aattcatgtg actggtcttg gatatactgt gcctgaacat cctccttata tgtcaaatac 420  
aatactggag tagtcggagg ag 442

<210> 19358  
<211> 391  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19358

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ctcagataaa ccttcaatct ctttttatgt tcttttagtga ggaactggta aagattcaat 180  
gctttgatac aatctggtga gtgagtgtcc gagggtagat aattactgcc atgtatttat 240  
gttactcttg catatacacc actacactca gtctaataca cccttagctt anggtacaat 300  
anaagagtga ttcctagtgc cttagttttt cgaanatata ttanattagc actaggaaaa 360  
anatactgta tggagatctt catatcttat g 391

<210> 19359

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19359

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atttaaacia aattaaaatt ttattttgat gtgaattata gcaatgggat caacacaaat 180  
gaattactgt aggacaagag aattagtcac ttacattgca tgataaagaa aactagataa 240  
aataacaaac aaaatgctgt tgataatacg aaagttcacg agaccagtgc tactaatagt 300  
tagtgggggt gtgtatgttt ttccctaaac cctaaagaca cataagatgt gtaacaaacc 360  
aactaagacc agtatagaac aagcagggtt ggtttaacag catcaaataa tctatcanta 420  
aaatgctatt gct 433

<210> 19360

<211> 404

<212> DNA

<213> Glycine max

<400> 19360

agcttatctt tcaactcctg aggattagc ctcaagagtg caaatatgga taatgtacac 60



aaatataata ctttaatatata tgggttaaaa tatacaagaa tgtatagcat tggaacaatt 300  
gtttaagtta tttgatatga taaacatatt gtttttactt tctgtaaatc atgatccata 360  
acgttcatgt tatgaatacc cataaccag tgaaaacaat attttcatcg tattgcaagc 420  
agcgccaa 428

<210> 19363  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 19363

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tcaggccatt ggagccatat acccttttct taaaaaatta aaggaacaga agtccatgat 120  
agacacatgc atgtgtcaaa aatcattaat tcgagcaagg atgtacacta ataaaccctg 180  
gaattctcaa atacaatatt gacgcttgta ttaaaagaaa tatagtacca tatgtaactc 240  
ttacgtgaca agtactaatt taggagaacg tatacgaaat catcatttcc aaagcctatt 300  
gtacatatat tatgtaccat aacaaatggt agcattgcaa ctttctttca tctcaatcca 360  
aaatcgtgaa aggaaagtgg ggcataataat ataatacatg agaaaaaaag tgtatagagg 420  
atgagaatga aatctctgaa a 441

<210> 19364  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19364

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tcttctcttt cctttgcaat ttttctcctg agatctgata tttcttctac atttgcttat 120  
gtttccttaa ctaacgaagc aattctcagc tttagttttt cattctcctc aatgtaccaa 180  
accatatcac tcccctctgt agaaaatggt gttcacatca tcagacaata tcttctcctc 240  
aatagaactt ggaatccact taataaatct acaataccta gtatgctaca acacagaaca 300  
taaataaact gagacgacat tngcttatgt tccaataggg gcaactacaa caacccttcc 360  
tcgagttctt ggtagtgtgt gatgacgacc cacacattgc actc 404



<210> 19365  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19365

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aagaaaacaa aattggaaga taagagggga aagaggaggg cctcttacct ctaaaatcaa 180
tccaaattaa aaaaaaaaaag aaaaaaagaa aaaaagctca acaacaaggt cttttgtgtg 240
agggtttcca tgtcttgacac tctctaata tggattgtct cagagaggaa gaagagagtg 300
aaatgagagt attttgtgtt gtggttcagt ccanacactc atctcaatcc aaacactcta 360
aaacttatta tccacacett anacaaggtt ttcgcataca taattgtaat catatataa 420
aacatcacia gtcacata                                     437
  
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<210> 19366  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 19366

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agcttttaaaa ttgtaacttt ttaaattaga aaatatgatt aaagataact ttaaaagttt 60
gaaccctaaa atcttttttag ttacttttaa cacttttttt tataaaacct atgcttaaga 120
aaaaataata agaaaatttt aaaccctaaa ccccaaaaga tttttttttt ataaaaagtg 180
tgaaagtaac aaaaaatatt ttagggttta aacttctaaa tgtatcttta atcatatttt 240
gtaatttaaa aagttacaat tttaaaattt ttaaaaaaat agtcaaggac taatttgaaa 300
aaataaaaaa taattaatga gaagatgaca tataatttga tagattaaaa aattaccaat 360
atcataaccc ctaatattat tggaaacacc atagaaactc                                     400
  
```

<210> 19367  
 <211> 436  
 <212> DNA  
 <213> Glycine max

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

ttaatgacaa tctcatttac ctaggcctta tattttattg cttgctatca tctctctatt 240  
 atatccacga ggacgatgtt actaatatca gtttcattat ttaaacacaa atagattgac 300  
 agtgcataagg acattatata taactatttt ttgtcttaat ttttatgttt ttatgggatg 360  
 cactcatcta aaaaacacac tccaaaaatt aaagggataa catcaacatt aatnngttgt 420  
 actattttga tgttcacagt ggca 444

<210> 19370  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 19370

agcttcaatg gcttagtgag gatggagagg tgcaagtaag gaagcaagtg gagttggata 60  
 tttccattgg aaagtacaat gataaggtgc tttgtgatgt tgttcatatg gaggccagcc 120  
 acttactctt ggggagacca tggcaatttg ataagagggc taatcatgat ggtttcacca 180  
 acaagatctc tttcacgcat caaggcaaaa agatagtgtc caaaccattg agtccacaag 240  
 aaatgtgtga ggatcaaaga aaaatgagag agaaaattct tcaagacaag agagaaaaag 300  
 aaaaagagag ccaaacactt gagagttcaa aaagtaagga caaaaagagg gaaacacaag 360  
 acaggaaaaa gatgagtga aca 383

<210> 19371  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19371

ntgcggattt ggtcttcgct agtgaaagga tctatgttgg tccgaaaaga ggcaaatttg 60  
 atcatcctac taggacgact gagaaaattg gggcaaatga agaggggtgag aaagagggag 120  
 aaacccatgc tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180  
 cattactcag tcaataacaa acctcctcct taccacccac ccagttatcc acaaaggcca 240  
 tccctaaatc aaccacaaag cctgtctacc gcacttccaa tgacgaagac caccttttagc 300  
 acaaaccaaa aaaacaccaa caaaaaggaa ttttgcagca aaaagcctgt agggttcacc 360

ccaaattccg ttgtcatatg ctaaacttga tcccatatcc actcaataat tcaatggtag 420  
ccataac 427

<210> 19372  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 19372

gttgcatgta agctgggtgc tattacgata gccgactact tggcggacac tatggcctgt 60  
tatcatcata tgcagtagaa atattagtct tgtatattat caatcgctct cattcagtag 120  
tgcgtgggtcc tctagagggtg agtcacatat tccatcagta atatttttgc aacctttttt 180  
ttaatatact tacagaataa aaccattgaa ctgctactac tagcaggtgc tatacatatt 240  
tgtggactac tacagctcat ttgattgcga ccataattat gttagtatat ggggtccaaa 300  
atccttatcc tctcttccag aaattgttgg taagttatgc aatgtgtaag caactgcaga 360  
ttttcaatct tcagtccttg atatcccaac tcccttgc 398

<210> 19373  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19373

tctgtttcaa cgaaatgggt aacaggactg attatattta agtgaataaa ctgttggttt 60  
gtaatttgaa gccacacaat acttcaaaag ggtaaataaa taaagattta tcaccccttt 120  
tgaatcactt tcacgtccc tttttgacct tacatatttg ctttgacttt tacgtacgct 180  
gcagcctggt aacagttgct acttttaagc atgcatgggt atggccaact aaatcaattc 240  
atttcagata tcattggaat gaatggcacg attatgtcac catttactgt atttacaagg 300  
atatggcaaa tgcaaaacaa tggcactgtg tggccaaagg gaactcgttt ggatgggaaa 360  
aaacagggttt agtgactctt agttgaaagg ctcaacattt atgactnttt atgtagattt 420  
tgttttgcat gg 432

<210> 19374  
<211> 398

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19374  
  
 ttctcatgcaa gctttatcaa ggtcaggggg gattttccat ttcttgaacc ttgatcttgt 60  
 tatctttaga agctaggctt ctttgcatta gggatgtgca aaaaaatcgg gtcggatcga 120  
 accagattgc aactgactcg actcgaacca gttgcgaaaa aaaacttgcc ccattttata 180  
 gtcagtttgg ttcgaccga cccgttttgg caaaaaaat tagtgacctg aacttgaact 240  
 gcattgctca ctctcatcat cctacgatct ttntttctgt gcaacttcat ttgtttaaga 300  
 agggaattgt ggtttcgaag ttgtacgacg aagcgattat ggtggatctg aaggaaacgc 360  
 tgagatacaa tntctttctc ggaaccttcc ccggaatg 398

<210> 19375  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19375  
  
 tgttcttgat tntttctaag ttctttattt agtcttttta caanataactn gnccttcatt 60  
 taactgtctt tgggcttggc ggccacgctc aacaaagtat ttctgacacc tactgtacgt 120  
 tgatttgacc aacgctgtta tgggaatggt gcgacaatcc ttcaaaacct tattgataca 180  
 ttctaagagg ttggttgctca tgcggccata ccgaagtcct tctctatcat aagtcacgt 240  
 ccatttttct tttgaaatgt gatcaatcca tgttgctatg gctggactca gttcacgaaa 300  
 tttttctaga ttttgataaa aaatgtgctt gcaaggagtg taggctgcat caaattagtt 360  
 atgaataaga attttaagta tatattaaac ttaaataaac ttgaccatga tatatgaaat 420  
 cttacccaa 429

<210> 19376  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19376

agcttttaac ttttctgttg ngaaaatttc ccataattgt tattaatcac ttttcaaata 60  
tacttataac taaaaaaaac attaatTTTT tttttatatac ttagaaccac cctcaattca 120  
atccatgagg caggtacaaa ctaattaaga tttggatagg cagcttctcc ttactagtga 180  
aagacacatg gcctttttaa accaacgagc atggatgcat ggattccaca gaaagacata 240  
tgtacaaaaa ctcaaattat cgaatggcct tacatacaga ccatagataa gggggatata 300  
taacttctct gctctgaaat gggccaaaat ctatttggag atcgggtgca gaactgctct 360  
atttctcat tcaccatcct tgcggccatt cacaat 396

<210> 19377  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 19377

agtttgaact ttgaatcttg attcttgatt cttgaaatca aatttctct tgaaccttga 60  
agtgttcttg attcaatctt gaacatctta aacatcttga acatcttgaa ctcattcttt 120  
gattatcatg aattgacctt tgatcttttt gtcacacct ttgttatcat caaaacatct 180  
ttgaatcaat cttgattcat catgaagctt tgcttctaca catcccaaata ataatgctta 240  
gcatcacttt taattttatc attctgagct ttagatgcta agggaggaat aacagaagct 300  
accaattaat tcacaatatt acgaaaccaa ggagtgggtga aggaatcaga aatcttataa 360  
agaatgtaca aatggtcac cggga 384

<210> 19378  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19378

tattatgtgt tgaattgtaa gatatgtgta tattgagttt ntgtacacat tgagttgtga 60  
gctatgaact gtacaatcaa atgacagtaa gaccctttta gggtgacggg ttaatgtgcg 120  
ataagtattg tgatgagatt cattgtggga accaatgagt tgaatcactt tgaggcgcaa 180  
cgggttaaag ttattttgag aacaattgat agaggattgt gttttgtata gttcatagat 240  
aaagtttgtg tgtaaaaatg ttttttctgg gttgaacctg aatcaggagg aaaaggccct 300

gacggaaact tcagagtcta ggccttgggg gtaaatacac ccaattntag tgctccttta 360  
 agcctctgcc gatccacat ggttgagca ttntcacaaa atagcgtgac cctaactgg 420  
 ctccctatga tttta 435

<210> 19379  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19379

agcttgtaat caagtgaggt ggagtggagt tgataattca gttagtgtag actgggtttt 60  
 ttctatttag gagggatgct acatgcttca attcagactt gatgtcgaag cagagtaatt 120  
 ttggctcctt taaattaaaa ggggttcact ttggaaggaa aagtttaggt tctcaaccat 180  
 ttgagtcaac agttgatatt atggtaaaat atatgcacaa ttggccaatt gcacattcat 240  
 aacaaagtat ggatttgta taacttataa cttatccctc acttttagatg ggtcgaatcc 300  
 aagaggaaca tgcaatttaa tcaattgtat gttttgttta agtcaatatg cttaaagttt 360  
 tttcaacttt tatccatgtg cattangctc ccctggac 398

<210> 19380  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19380

tataaactg caaagtgat gagaatagtc ctcaaaattg ttattataat acaaatttt 60  
 ccttttcttt tattacatga ccaatcaaac tttagacaga aaatgttact aacactacta 120  
 gttaattaat actatttaca taatttcaaa tcagggttaat actcagacaa ctataaaggt 180  
 caagaaggac aatgaaggct tagaatatgc gttgaaatgg caatgaaggg aagagctgtt 240  
 tgtccaaatt aaagatggac taatcacccg catcattgac ttgactgctc gaaaactctt 300  
 ggatcaaaag gttgtcacia atgattctag tgattactta tggatcatca ccaggttaata 360  
 atattctatg catgtccttt ntaattaatt caaagttgag taatgttaac ttctcctatt 420  
 aattatatct tcctacaaa 439

<210> 19381  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19381

agcttcttat tttcagaaga tgaagatgaa tccgtggcca catcatggac ttctctaagg 60  
 acaatagcat catttcttgc actgaattgt tgggagttgg aagcaatctt ctcaatcaga 120  
 ttcttagcct caacaggagt catatcacca agagctccac cattggcagc atcaatcata 180  
 ctcttttcca agttgctaag tccctcatag aaatattgca gaaggagttg ctcaaaaatc 240  
 tgggtggtgag gacagcttgc acacaatttc ttgaatcttt cccagtactc atacaagctc 300  
 tctccactaa gttgcctgat gctgaaatg tcttttctga tggcagtggt cctagatgca 360  
 nggaagaatt tctccaagaa caccctctt 389

<210> 19382  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<400> 19382

tataaatcta agcttgcttc tcaatctccc cctttttgat gatgacaatt cttttatcaa 60  
 gaaagcatat acaatttcta ttgttcgttc attcattcca agcttcccct ttgtcttgga 120  
 gattatgcct aatttttttg aaatctaaaa ctttatcttt cttgatttct ctaaacctcg 180  
 tttctctccc cctttggaaa catcaaaaag ccaaagtgcc caaaaaaaca aatataattt 240  
 atccaggaag agaacacaaa accaatcata ataccagagc aatcaacatt catacataat 300  
 tcaattatag tgtatttaat caaagaaaaa tatccaaaca aagaaaatca atccaaaacc 360  
 ataaatatac caagtcagag gtcttataca tagccaaaat acacagcgta gaaattataa 420  
 ctaagaaaat aaaactaagg gtctccaggc g 451

<210> 19383  
 <211> 369  
 <212> DNA  
 <213> Glycine max



<223>        unsure at all n locations  
<400>        19383

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agcttaatgt atccacaaga aaagaccatt acccgcttcc cttcatggat caaatgcttg   60
agagacttgc aaggcaatcc ttctactggt tcttgacag atactcaggt tacaatcaga  120
ttacagtaga tcctcaggat caagaaaaaa cagcgtttac atgtcctttt ggtgtttttg  180
cttatcaccg catgttggtt ggtttatgta acgcccctgc tacttttctaa agatgtatga  240
tggcaattnt tgatggcatg gtagagaaat gtatcgaagt ctttatggat gatttttcgg  300
tcttcgggtgc atcttttgga aattgcttag caaattdaga gaaagtgtta cagcgttgtg  360
aagaatcta                                     369
```

<210>        19384  
<211>        440  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        19384

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ntatcgtgag gttgaggaat ccaaggaatt ccgacgcttt gttgtttctc ctcacccaaa   60
gctacaattg caccctcctt ctttcccttt tttgttaatt gtgtgaatga attagttaaa  120
ttgtcacagc tttttgtgtt aattgttctt ttattgttca aagtgaagta atttttggta  180
acttttaatt gtccgaaatc tcttaatctg aatatcttcc aagcaatttc tagttcttta  240
tagccaccag aaagtgaac gtcaacaaat gtaatataat aacaataaaa ttattccacc  300
attagttacc attaccattt aacaataatg atagaaacat aaaaaattaa gactgattaa  360
tttttaattt aaagggttaa agtgaaaatt cataaaagtt taaagacca aaacataatt  420
aatcctatct ttttcatatg                                     440
```

<210>        19385  
<211>        320  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        19385

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cgagctcggg gcccgtgat actctatagt gcaccagcgc gccttcanac ttgtatagtg   60
ngcataaaga tatagatatg gggatagcat accttcaatg ctaaataagta cgatgaaatg  120
```

gtaccacgta catttcctgt aacagctgtt aaagtattct tgatactatg tgatgagtat 180  
agagataata acgacgagct attatcagcc cattgcatga gataatatat aattatgcag 240  
tatatttaat atcacccggg atatatagct gattaatact tttactgcta ccagagattt 300  
ctttactaga acgctattaa 320

<210> 19386  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 19386

taatcaattg aaaattgacg gtgtgagatt ctctctgttt ctctactagg ggcaattttc 60  
cttggcacc cttatcatgt tcaatttggt ggtaagttta ggtcttttaa tccaaaaaag 120  
gaaacttggg taccatgtga gagtaatttg gataaatgaa aattgttttg gttgttatat 180  
gcatgagtat ttcgatgctt gtttgcaata atgtaataa caaaagtacc taccacatag 240  
agagtgccta cgcaatttgg aatcaagaag tttcagattg tgtgattgca ttctctagca 300  
ccaaagctat tgcattgaaa aattactgca taccctaaaat tactttaata agttgcaacc 360  
aatattactt ggcaaaaaag tagtctaaag ctactctgtc atcatgga 408

<210> 19387  
<211> 407  
<212> DNA  
<213> Glycine max

<400> 19387

tcaagcttct cccccaattt tctataaata gggggagaag tgaagtgaaa aagggttcag 60  
ccccttaggc acttctctct ctttcgaatt tgcttggaag aattgggttct gtgaagaaaa 120  
ttcaagccga ggcgctctcg aaacgtttcc gtaacgtttc cgtgagaaat tcatgaagg 180  
tttcgaccgc tcttcaagat tcatcgctcg gtctttgctt tcttcagact tcaacgggta 240  
agtacctcaa accaagcttt tcaattcatt ctatgtaccc atgggtgggtcc acatttcgtt 300  
tcatgtatat ttattcccct tttcatttac tttttatacc cctttttgac gtgcttaagc 360  
catttattta aggcatttct cgcttaatgt acaaatagaa taaattc 407

<210> 19388  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 19388

ttagcttgga gggattgatg gggacccggt gttgagagga atcaggataa gggctacgtg 60  
 ggactacgtg agctcagttg aaggtgggca acttgggatg gtggatttat gtgtgatttg 120  
 tggatgtgga gagtcgactt gcaccatcgc ccgatagcca cctagtacca catatgacgg 180  
 gtaccccata atcctacaag cttgaagtga gaaagtgtgg aagagtcagt cttcctactt 240  
 ttattcgttg accacagagt ggtacttgga gatatgtcgc ggggggtcagg agaccttggg 300  
 gacgtcaggt ggggtgctat tgcccaaac caagcttgac caatcccgac ccaacccggg 360  
 catagtcagt cagtgagaac ctgtgacgta cctaaacagg c 401

<210> 19389  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 19389

tgcttctaca gacttatccc aatggtcttt ttttactatt agcttgctca ctagcttttc 60  
 actttcattt gcttttgacc ttgttacatc agcacacttt attctttttt ttaacataaa 120  
 acttatttgt tgtgtgtgtt gatgctttac ctttttcttt gcatcccaat tagttctact 180  
 cccccaatt tggggtaaatt ttgccttgaa ccatatgctc tcctagaatc taagcaaggt 240  
 atcaggagat acttatttaa gttcagggtt caaatTTTTg acaatatcat tcagctcaaa 300  
 aaggggtgcaa aggatataat taacattcaa ggaaagtTTT ttggtcaaaa gtctgtgtga 360  
 tgtacaatca tggccttcat catgttctca tttatacatt tcattctaaa attcagagat 420  
 tcatgcaaag a 431

<210> 19390  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 19390

agcttgtgaa tgcattctga tgtggtgaat ttgatggatg tattgaaaag ggggagtcca 60

cccagggtat gctattaaag aaaaaaagag aaatatacac gtagagaaga tgtcattctt 120  
catgctcttc aactcgagag gcaaattgta aagaagcaag aaaaaatagg tgatgcttct 180  
gactagatca attctagatc atataatata ctgttaagaa aggcgtattc atgtatctag 240  
acattaagaa atggcaatga aaaaacaaaa tcatatgcaa catcggggta aagagggttg 300  
ggcctaatat ttccttttga gatgtttgtt ctcatcttct attgatccag atgtttatta 360  
gaaactaata gttgatgata gtgctctaac tctaacaagt gatgg 405

<210> 19391  
<211> 433  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19391

ttcatttaat tcttttgaca cctcgattgt agtcactttt attatctctg aacatgccag 60  
cattaaaaag cttgcaactt gaggctgtct cttttactgc aaggggacaat gactatgctg 120  
agccgttttc tacctgtaat gtgctgaata ctttgatact tgatgggttg tcgttgcata 180  
aagatgcaaa attcctctct atatcaaatt ctagcctctc tagtttgacc ataagtggta 240  
gttttgaagg aggagcttac aaaattgtgc tttctactcc aaaccttagt tctctcacag 300  
tcacgggtca taataatcac acaatctcct ccgcatgcaa tctttcttct cttgaagaag 360  
taaccattga cacccttggg tatacactnt ttccgaatac agacttactc atcataagct 420  
ggctgcaagt tct 433

<210> 19392  
<211> 335  
<212> DNA  
<213> Glycine max

<400> 19392

gctaactatt tacaccggag tgtgcaaaac gcatgagacc tcataaacgc attacacact 60  
cccatctcta tattcccttc ctccactttc atgtgaaaat tcaagtacta tgacaacaaa 120  
taaaattgta aacccaaagg gttcctaggt tgctacacca agactcacat tatgtatttg 180  
agtctcagct gttctagaag atgttagaga acagctattc atgaagatac atattgagag 240

tgtgccaaca atttgcggaa tctttcctct ctgtccctac gagactggga ggttggtggtc 300  
cctgatggcg tccgtcggtt ctttcttggt cgga 335

<210> 19393  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 19393

taagcttgaa ggaaaccttg atgccttggt caaccaagta actcagcttg ccatgaatca 60  
gaaatctaca cctgttgcaa gagtctgtgg tctatgttct tctacagatc accatacaga 120  
tctttgtcct tctttgcagc aatctggagt taatgaacaa cctgaaactt atgctgcaaa 180  
catttataat agacccctc agcagcaaaa ccaacctcag cagaacaatt atgatctttc 240  
aagcaacata tacgatccag gttggaggaa tcatccaaat ctgagatgga caagtcctcc 300  
acaacaacaa cagcctgtcc c 321

<210> 19394  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19394

tcaacatcag accacttccg ggtgctgtaa ctacttttca tggacttgat ggggcctatg 60  
caagttgaaa gccttgaggg aaaaaggat gcctatgttg ttgtggatga tttctccaga 120  
tttacctgng tcaactttat cagagagaaa tcagacacct ttgaagtatt caaggagttg 180  
agtctaaggc ttcaaagaga aaaagactgt gtcacatgaaga gaatcangag tgaccatggc 240  
agagagtttg aaaacagcaa gtttactgaa tactgcacat ctgaaggcat cactcatgag 300  
ttctctgcag ccattacacc acaaacagaa tggcatagnt gagaaggaaa aacaggactt 360  
tgcaag 366

<210> 19395  
<211> 350  
<212> DNA  
<213> Glycine max

<400> 19395

tttcatgcaa gcttgagggg gaggggtgag atatgattct gattagatat cattctgata 60  
 tgattgtttc cttatttaca ttaggattgt ttccttattt acgttattga tttagtttcc 120  
 tatttactat ttttatgtaa ttgatttagc ttgattatta tccctataat gaagggatta 180  
 gattattatt ttaattaaac attgattact ataaataaac agccaagggt acattctctt 240  
 taagcatcta gaatatacaa ttcagattca agtggtatgt gtgtgtgtgt gtggaataaa 300  
 ctgtggtaaa ataaaaaaga gataggataa agaaagagga aggactaaag 350

<210> 19396  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19396

tattttcgat aaacttagat ctagatggga tgtgtctctc ttgttattac taatgttttt 60  
 tcccatggtg caattgagat taaaaatgaa gttatcgaca aagttttcaa agtgaacggt 120  
 caccaactca agctttttca tgagagcccc caagtggagg aggaatttat ggcgggcctt 180  
 agtttagagg tttcatgctt aatgtgaacc attggtgcaa ttgtcgaagt gataagtagg 240  
 cttgaaaaat ttgaggagga tcatgtgtga taaaatgatg ccttgtgagt tttgggattt 300  
 tgtggatgga ttgtattatt ccattcatgc tctttcatgt atgatttcac ccttgtgcta 360  
 gattactcta ggttntgcct tgcttatctt ctctaggttt cttttagtca ctagcaaaat 420  
 aagcctacc 429

<210> 19397  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19397

agtcttattc tatgctttat tattggntgt cggaaaggca aatgtcagtg cctgctcaac 60  
 aattaatcca tttgatttct catggaaaga tctatctaca tatattgtaa ataatatctc 120  
 ccgttataga ttttctaagg ttaattcaac aatggaatca gctagcgcac gtgcattaaa 180  
 aaggatttga tgctctgaaa cctctattgc ccaagaaacc atccttctcg ccaaatcaag 240

tcggtgaaga atttgtcgaa tggactaatc aattcacacc attatccggt gtgaatggaa 300  
 atatagtcgt atgcgctcttg ttgccattac tatagcaaaa actaccttct ctaatga 357

<210> 19398  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19398

ttctttacat aatttgtcac tgactacatt taaatgcaat ctcacatnct tgatctttct 60  
 tagtctaaca tacacacttg ctcaaactca tgataagaaa cacaaactcc atcacaatca 120  
 tgcacttaat ttaaaataaa agcatataac tattttcaca aaaagataaa aagtgtttta 180  
 ctaccatgto atcaaaaaca agtcaaacta ttcaaaatgc ttcaggataa gcaaactaac 240  
 taccataaaa taaaactagc agtgtatgta gacctaaagg aaatattgta tgaaaaccaa 300  
 aattgtaata ataataataa atcaaaaagc aaaaagtatt atcaggaatc aaaattcatg 360  
 tgactgggtct tggatatect gtgcctgaac atcctactta tctgtcaaat gcaatactgg 420  
 agtagtc 427

<210> 19399  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
 <400> 19399

agcttattat tattgtttct ttaatgatgg tatcttagtt tctaattaat actttgttta 60  
 acgcttctaa attttcttta gacttttata tctttgatga agaagccacc agagactata 120  
 ctaacggatc aagatccatg gatgaaagaa gcaatttcaa aagacttgcc atcaacataa 180  
 catagttttt gcatatggca cttactttt aagtttagta gttggtttaa tgctatactt 240  
 cgggacaaat attcaaaatg gagttctgat ttttacgagt tgtataaa 288

<210> 19400  
 <211> 437  
 <212> DNA  
 <213> Glycine max

$\frac{d^2x}{dt^2} = -\frac{g}{L}x$

<210>	19401
<211>	340
<212>	DNA
<213>	Glycine max

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tgatgtgcc	tcattttctt	ctattttcta	aacccttttt	gctccattnt	aattattgat	120
tggctttaat	tgtcaattaa	ttaggcagtt	ttattatttg	ggctcattta	gctaatttga	180
tgtttcta	ctaatttcaa	gaattaatga	aacattgggc	ttaatccgga	ttttggttgt	240
ggacttgaag	agggcaaata	aagcagcgct	taccttagtt	aatttcta	taagaaattt	300
cgcaatttta	ttttatgttg	ttcagtgttt	atttcgtttt			340

<210>	19402
<211>	432
<212>	DNA
<213>	Glycine max

tataacattg cttagattgt gtaggtatca gattagatct atttgttttc aatatcaaaa 60  
gaattcccat tgtaattgac aggggtgcagg ctattagatt agatgagaca aacttcctttt 120  
caatatcaaa acaaatctag aaacggagta acacaggaac tttggagtct tgtctcatat 180



ggtttcttaa ttacaagtct aacagtagtc tagtagatgc atattagtat cctaacttac 240  
 cttttgtttt tcttaaccat ctgattcatc agggaaaaag aatgctaact aatgcacata 300  
 atgtatgcag tgtgtacagg catttataca tcttaccxaa atgacagata ataacaattc 360  
 agtttagaca tcttaaccgc atgaaagcga aatacaatat gcgatgtatc aaaattaggg 420  
 agtttgtgta ag 432

<210> 19403  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19403

agctttatgt tttgtgatta aaccggattt tacttggaca cataaaatct taaaaagaat 60  
 ataaatgtat atgccaagta ttagatntg gaggtcaatg cttgtttata tttattatag 120  
 acatgattca caatagaaca ttatagcatt gtgtgatcca tcatgtagtc aaccctccta 180  
 gtgcatgtgc tatgtatata gttaaagtgc atgttgggtt tgttcatctt attctggaga 240  
 aataactgca tacttttgtt ggcttcttac tagagttctt aaaaaataag ctattatatt 300  
 tccatagtga agacaaacca aacttgctaa atcatttana ttaatgttga atttataaca 360  
 atttactaac tgtctatttc tctaataatat gacagtccca catctaatt 408

<210> 19404  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19404

tctcgaagga ggtcgttctt gatgttgttg atgcggctgg tgttagaacc gtggctgacc 60  
 ctgagggcgt ggatgtcttc ttggaggcca tggattttgt acttctgact caaagatcgc 120  
 atgetcaata gaaggatacc cgtcatggcg aagaattgga tgaagctgtc cttccgttgc 180  
 ttgcggtgcg ccataaacc taatatcttc ctogaatgtt ccgcgggcggc gctcggctga 240  
 ggagaagctg aagaagaagc catgccgatc tatccacaac acgaccgata ctattactca 300  
 cccacctaca acagaacctc cctgctttct ttctctgctg atcacaatt gcaatgaatg 360

tcgacggatt cacctgtgta atcctccgcg ttactttctt gttgctcttt tttctttnt 420  
atctc 425

<210> 19405  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19405

agcttccatt ntcaattacg agcgtctcga tatattacgg gacccaattg gacatgcgag 60  
caciaagtta ttgtcgtttg acttttctca gagcttttat tctgaatttc gagcgtctcg 120  
atatactacg ggacacaatc ggacatccga gtaaaaagtt attgtcgttt gattntgctc 180  
agagcttctg ttctgaattt ccagggtgtc gatataccac ttgccaccat cggacatccg 240  
agtaaaaagt tattgtcgtt tgaatttgct cagagctttt gttttcacat ttgagcgtct 300  
cgatatataa cgagactcaa tcggacatcc gagtaaaaag ttattatcgt tagaattggc 360  
tcagagcttc cattntcaat tacgagtgtc tcgatatatt ac 402

<210> 19406  
<211> 445  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19406

tcaccttctg gtctctctca tagttgtggc atgagatttc atgctctatt ttcattctcc 60  
actccaagta ggctccgga tcattctttc ctttaaagtg aggaatgttg agtttaatac 120  
catcaattcg gttttgtcta ggaacaccat cattccctct tctctctctt tcttcttcat 180  
tatgatctct attctccatt tgatccaacc tctcgtggag cgcacatctt cgttgtttca 240  
ttaacctctc catatgttgc atcaaagctt gcatttggaa ttgcgaaagc cccactccat 300  
cattaggatt agtacctgac atctcanaca aacaaatcaa acgtaacaag acaattatag 360  
ttgctgtttg aataacctcac ccactcaagt gtatcacaca attatggctn ttctctaagt 420  
aaacactctt gccttttacc actct 445

<210> 19407

<211> 367  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19407

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 gagggccgct cccatgctag ttntgcctaa cccaagagaa ccccttgagg tgtattgtga 120  
 tgcataaag atgcgttttag gaggagtgtt gatgcaaat ggccaaggag tggcctattc 180  
 ttctagacaa ctcaagactc atgagaggaa ttatcccacc cttgatctgg agttggctac 240  
 tgtagttttt gcccttaaga tgtggaggca ttacctgttt ggctccaagt ttacagtgtt 300  
 caaggattat aagaggggacc atgacacana gatcctncac aaagaattta gtcccagaca 360  
 acaagta 367

<210> 19408  
 <211> 432  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19408

ntgtgtaatc gattacacct tatttgaat cgtctactca ttgactgntt ctgataaatc 60  
 aaaagatgta actcttcaaa agggttttga ctttttcaaa ttggttttta gtttttctaa 120  
 aagttataac tcttctaaat ggtcttcttg gccagacatg cagagtctat aaaagcaagg 180  
 ctttgatttg cttttcaata cacttttcac attcattcaa tcaatccttt gcaagccttg 240  
 aatctctttg aacttcttct tcttctttgt actaaaagct ttctaaagtt ttctggtttt 300  
 tccaaacctt gaaaacttgt gctatcctac ttttcattct cttctccctt tgccaaaaag 360  
 aattcgccaa ggactaaccg cctgaattct ttntgtgtct ctcttctccc ttttccaaaa 420  
 gaacaaagaa ct 432

<210> 19409  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19409

tcaagctagg catcaaactt gctgataata ggctgccaaa cactccagct tttaggatca 60  
 taccocattg gaattccaag gtaagaaaaa ggagaaacca gctgactata gtttaaggaag 120  
 tgagctgcat ccttgacca accctctgat tttcccaaac aaccaaactg acttttagca 180  
 taattgatct tgaggccgga taccatttca aagcatctca gaatagattg tatgacttta 240  
 acattatcca tagttgcagt cccaaaaaat agagtgtcat ctgcatattg cagaatatta 300  
 acctctctct tatgcctgcc cacttgataa ctgctgaaca tattcttaga aatggctgcc 360  
 tcatcagacc tgtatggact taactactaa attgaaagg 399

<210> 19410  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19410

ttttaaacca tatatagatt tattaagctt gtaattcttt gctcaccact atcagaggag 60  
 aaaccttcag gttgtttcat ataaacctcc tctctaaat caccattaag aaaagttgtt 120  
 ttcacatcca tttgttgcaa ctcaaagtca aaatgagcaa ctaatgccaa gattatacga 180  
 agagaatctt tcttagatac tggagaaaaa gtctctttgt aatctattcc ttcattttga 240  
 gtaaatccct tagcaacaag tcttgccctg tatctctcaa tgttgccctaa tgaatccctt 300  
 ttgggtcttaa agaccattt acatccaatg gtctttgccc cattaggcaa ctctacaagg 360  
 ttccaaactt tgtctgcata gaattcatct catccttcat gtcatcatac catanatttg 420  
 actctttaca acn 433

<210> 19411  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
 <400> 19411

tttagcttat gaatatcaga tcgcaccttc gttctaaat gttcaagaat ctcttgatcc 60  
 gtgggatcaa acttcactcc agcaggcagt ccaggtaagt catgaattcc accaccctaa 120  
 aattattcaa caccacaata tttattttaa taattttttc ataaagaacg ccaaaaaaaaa 180  
 aaatgaaaaa tgaatcaaac taagacaatt acatcaaaag aaaaaaaaaag tactcaaaag 240



[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

ctttaatttc aatacaagga agcatgactt acgctcattt atctaagttt tggttttgaa 60  
 tgtaaaaagg catgaatatt aggacatggt tgagagggtt ttaatagaat ttaaatttgg 120  
 ctgccccatg aggaatacct tgtacctagg tagcatggaa aatacctttc aacgggtatgt 180  
 atatattgtga atatatatat agcatggaaa tgccttgcat agtgtgtgaa tatatggcat 240  
 aaaaatacct tgcaaagtgt gaatgtatag caaataatgc atttcaaaaa tctgtatatg 300  
 tacgataggt agcgtaaaaa tgcctttcaa aatatggata tttgtggata ggtagcctaa 360  
 ggagcctttc aaaaaaaaaa tgtacccatg tcaaaaatgg cacgagaatg cttcccaaatt 420  
 gaatatatga tgtggaact 439

<210> 19417  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19417

agcttaatat aggtttgtga agaaacatct tacagagaaa agaaataaca aaaaagatta 60  
 aagatgaaat gagagaaatg gaagagaacc tgaagttttt tccaaaccga ttgagaaaga 120  
 ggtactttca gaaagtgtt ttttttatgc gtcaaaagca ttaattctgt cgaagttgta 180  
 ttgcctattc agttctctaa tgttttaaga taaacatttg aaagttgaaa ataataatta 240  
 tagaattaat attccagaaa ttgttgacc aaaaatcacc aatgcattaa ttattaaaat 300  
 aaagaatctt tttcattgaa ttactaatta gcaaatatga caaaatgaaa tttccaaaaa 360  
 taccncacc aatttcaca cacacatata ta 392

<210> 19418  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19418

tcatgcattg ngtgtgtcgg tggaggacaa tgttttgtgc cagaaagaaa atgctctttg 60  
 ttcttggatt caagcggcac aactatatca cgttccatt gacgaaaatt gctttctate 120  
 agtggtgaca aaacaagaac aacagaagga ttttctctag gatgaagaag ttgaatgttg 180

attgttaaca accataatcg atcaaaaaag caagaagaat aaaaaatgaa actagatttc 240  
aatgaacaa atgcggaagg atgatgaacg aagaaggctt cgtgtgtagg gatgatacca 300  
tgaaagaaca ggaactgaat ttggaggaaa aaatagtttc tggaaaattc tccttatcca 360  
ttaatcaact caacaaaaaa aaatacaaga cttgctatct atacaagcaa agctatgggt 420  
aggaagat 428

<210> 19419  
<211> 394  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19419

ttgcttcatt atcatgaatc aagttgattc aagtagtttt gatgatgaca aaaagcccaa 60  
gagaatgatt tcaagaatga gtcaacaagt tcaagatcaa gattaaagaa aagacatcaa 120  
gaagaatcaa gattcaagaa taatcaagat caagatccaa gactcaagat tcaagaatca 180  
agagaagaat caatcaagat aagtatttaa aaagtttttc aaaacattga gtagcacaag 240  
aagttttcac aaaatcatta ccaaagagtt ttactctctg gtaatcgatt accagaatgt 300  
agtaatcgat taccagtgtt tntaaaacgt taagaatttt caaattcana atgaagagtc 360  
acatctgggtg atgtgtaatc gattacacct taat 394

<210> 19420  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19420

tctagacatt gttcttctgg aattggcttt gttcttcttg catggccttg acctaatgtt 60  
cattctccat agcatcatca gtgtgttttg gttctgtctc ttagacgagt attgtctaac 120  
cttggtgtct gggggatgcc cttgttttga cttgggttaa ggagtcacca atgggtgagg 180  
atccaatccc atcatctact ctgagatccg taataaaatc attcaactct gatatttttg 240  
tattaggctt gatgtcatca aacttcacat tgatagcttc cttaataatt aaggttctag 300  
agtagtatat tataggcata atgtcacttt ttgtgcatta tgttntgtag ttgtttcact 360



ctagtacatt aagtttaaaa gttccacttt ggtcctttaaa ttntttaaaa tgccacattt 420  
tgttcctttt 430

<210> 19421  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19421

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gcgactgggc cctctcttcc cttcgcagct tgagttcact attgctaccc catagagctc 120  
cgcgaaattt attccggcca tactcttctt tgcgagccct cttgggtctct tgttcaaggg 180  
ctctgggtgt aattgcattc tcttcccgta atccggcata ctccttccgg atgtgtgtag 240  
cggccaactt gaacttctct ttggcaagtt tcgcctttcc taactcgctt ttgagagctt 300  
ggacttcttc gtctcttccc ggtgcttcaa aactctcttc gctgacgact nttacttgg 360  
cgagccaatc taaacctcgt atatg 385

<210> 19422  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 19422

tgtcaaacc taactaagga ggttgagcct ctcattgtca tgagaatctt tacaatttag 60  
gagttgatgt ggatagaaga agagagatgg atagaggagg agaaggggat aatagacata 120  
gatagagggg ttccttatt agagatgctc agacttagga tgtattcatt agagagctat 180  
gaatctccga ggcggtatta tcccgggtgt cgggttgtgt ctattactta tgcttgctac 240  
tccttttatt ggactaaggt gtaacttact tatcacgctg acttcgcgct tagcgtgaac 300  
ttatacgcta agcacgcctt tgggcttctt tatgggcctt gttcaaccta agtgtgagtc 360  
ggaccgctta cagaggggtgc gtgctaagcc tgcatagcac gctaagcgac gtgctcaatt 420  
c 421

<210> 19423

<211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19423

agttttggtt cccagtataa aaaaggcatt gctatttaag tgagttttta acgtgttaat 60  
 ctacgcttct gggttatatt gaaaataatg ttttcacggg acacaaaacc atatcatcct 120  
 gtacagtgtg catgctaata cctactatgc aaaaagggtt tcgtaataata tacttaaata 180  
 taacttttgg tttattgtat ttcgtagttg atttggttta atatattaag ttttaaaagt 240  
 ttgattttta ttntttttta aatgtattat ttttaatttt ttattaaaaa tattaatggt 300  
 ttattaactt ttaaatttta aaaaatatta aaacaatata tttcaaaaat ataatgatc 360  
 ataataaaac ttattatact aaaacaaaat aatcaggaaa cataatatat 410

<210> 19424  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 19424

tagttgttga aggcctaac tagatcatga ttccaattgt tttctctttg gaatcatgac 60  
 ttacaagggt tgcagcagtg ttgtgaaaat ctatctcatc gaggcattgg attagatgtc 120  
 aaatatgtgg gtcatttatg ggtatcgcta atctatattt caatattaca taagtattta 180  
 ttattataat ttattttggt ggatattatc attgaatcat taagaaaatt cttgttatct 240  
 tttatgatta agtacaaaaa ttatcaaatg gtcatcagta agtatgatga agatgtataa 300  
 aatacataaa tattaaatca tatcaaaata ataactatta gttattatat atttttatca 360  
 agatcaaaat aatattatat gagcatatta tacgctagta ttcaataatt ggatattaat 420  
 acgttaacat att 433

<210> 19425  
 <211> 508  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19425



ccatcttttaa ttcgaacaag tggcttaaag gtgtaaatgc acaatccttc caagcgagca 240  
 actcaaaggt gtaacgccat cttagaattt cgtatgagca ttttcaatga aaatggaaga 300  
 cttgaacgaa aatgggttggc tcgctcctca ttgctctggg aatagataac gatctatata 360  
 atgagcaciaa tgtatgaagg atggaaaaac tccaatttat gtcaccccag gttaagactt 420  
 gtagatcaca ctattca 437

<210> 19428  
 <211> 323  
 <212> DNA  
 <213> Glycine max  
 <400> 19428

agctggatgt aacttatcct acgcgatatt gtttaaaact taaatcatat cctcaaatat 60  
 attttttatt catataaata tcaaaatatt tggaatttat tcctgtaaaa tttgatttta 120  
 ttacggttagg catgtttgct ctctcctaaa tataacaatc ttgataaggc ctataaatat 180  
 aacatatacct tcaatttcat tctattagaa aaaggcccat gtgacaaaag aagtataatg 240  
 cgatcgaaat gtttgaataa aatattacaa ttttttttcc atagatcaca tattcttcat 300  
 taacactaag aaaaaaaatc ata 323

<210> 19429  
 <211> 559  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19429

tcatgcacac ctataaccgg agtgagtaag agtaagatgg ttaatattac tcaanaaaag 60  
 aagggtnatt ttgatccctt gagaccgtgt anaccncaan ntaannctaa acggncnntg 120  
 agccgtaaga aatagactat aatctttatg tttcttatgc cttactgaca aaaggaatgc 180  
 acgaaagagc ttgatcccac ccatgctcaa cggcatatta tattagggag cacttttata 240  
 atgaccgctg actctggaca gtgcgataaa ctaccgataa ccatgacata gtgacgtatg 300  
 gcacgtgcat atgaccaccc ataactgtga agtcgaagat gaaaagaatt acggctgcat 360  
 gtgcctgtga tgcttgtggc acaaccttg aattacaagg agacgactta tattacaaag 420

aaaacgtgta tctaaatgac ggagctgaga atgacaacgg atcctgatgc ttatatgatg 480  
gagcgtatgg atccaagttt agatgcatta gtgcgcaaga gccgttgaat aactagatat 540  
ctttgacttt ccgcttagg 559

<210> 19430  
<211> 331  
<212> DNA  
<213> Glycine max

<400> 19430

ctcaagtttt agctggacaa ttccgcgagc ctcgatatat tattcccttg aatcgcacct 60  
ccgagtgaat atgtatgacc tattgatttt gctaagagct tgcgagctca tattcgagcg 120  
tctcgatata ttatgcccc gaatctgacc ttagcgcgaa aggttatgac catatgaact 180  
cctcgagagc ttgcgttggt taatttcgag cggctcgata tattatgcac ctgaataggg 240  
tctccgaggg aaacgtcttg accatttgaa tctctcagag ctgcattca tcagttttac 300  
cgctcgaat attatgcgcc tgaatccgac c 331

<210> 19431  
<211> 420  
<212> DNA  
<213> Glycine max

<400> 19431

gatgcaacat atggagaggt taatgaaaca tctttatatt ctctccatga gaggttggat 60  
caaattggaga atagagatca taatgaaaaa aaaaggagga gaatagggaa tgatggtggt 120  
cctatacaaa accgaattga tgggtattaaa ctcaacattc ccccttttaa aggaaataat 180  
gatctggagg cctacttgga gtgggagatg aaaatatagc atgtattctc atgcaacaac 240  
tatgaggagg acaaaaaggt gaagcttgcc gccactgagt tttccgacta tgctcttggt 300  
tggtggaaca cgctacagat tgagatagca acatatgaag agccaatggt tgatacatgg 360  
acggagatga ataagatcat gatgaagcga tatgtgccgg ctagttactg cagggacttg 420

<210> 19432  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 19432

tttagtttga cctgtccaca taagtgaggc ttctatttgc caaaagatga ggagtattaa 60  
ttgttatcat tgtctgaaaa taatgctcat caacataaca tttgtgtggt ttgcagaatt 120  
ctttgagctt agaagcatat tcccccaatg aatccgaaaa gtgttcaaaa cctattaaaa 180  
catgcacacc tcaactgaaaa atgatacaat aactgccaca aattttgtgt aggaaatcag 240  
ttttgaacac tagagaaaaa acacatttaa tagcataaac aaacaattta taaagactaa 300  
ggataagatc atgaacaaat catgagccag aaaccacagg atcaagaggg aataaaggat 360  
catcaagaaa caatatgcga gtactttcat ttcaaga 397

<210> 19433

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19433

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tgtatgtata catgaatttg atgatgtcaa agaagaatct aacaaggctg cttcaaatga 120  
taagcatttg cttcaagaat aattcaagat tgcttcaaca aacaaagcct tgtttcaaga 180  
ttcactaaag accaagcctt gccttaaaac aaagtgtttt caagacatgc aaggctctgg 240  
taatcgatta ccaggaagtg taatcgatta ccagaagaca gggttgagaa atagctgttg 300  
aaaaagggtt tgaatctgaa ttttcaacat gtaatcgatt accatatgtc tgtaatcgat 360  
taccagcaac gaaacttttg aaattcatat tcaaagtc ataccctgcan attataactg 420  
tgtaatcga 429

<210> 19434

<211> 353

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19434

tagcttggcg acaatgagag gttttgagtc ggagtgcaaa atcaaggtga aagtctcgag 60  
gatgagcctg gcttgctcaa tggagatttg aagtgactca aagattgtcg ctaagtcgac 120

tcattggttg gaggaagact tgagaagctt ctacttcagt ggaattaggg tttgtgccag 180  
 gtcaaagaag atgagacgca ggattggcaa aaggccatgc ttgaaggatt cgcgcccttg 240  
 gtgaatcatg gtggttgggt cccttgccaa tgaagatggc atgcacgaca aaggaggctg 300  
 aggagctagg agggggaaaa gtctatgggg aagaggtggt angtggcgga aat 353

<210> 19435  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19435

tgggtgccct ttcatttgtg acattggcat ttattatggt aattactcta taccctgcat 60  
 tcattgggtc tgaaatacca aaaatcccaa ctcaatgttc agcagtgcct tctttatgtc 120  
 atcaaatacc aatggaagga atggaagagg cttaaaacta catcactttt aattgattca 180  
 atgttttcca aggttatgaa aattaactaa cctacactta tttccacgac gttggataca 240  
 actttacagt ctttagactg ctttccaaaa agagacgaga cacattcatt cagcaagatt 300  
 tatataattc agtctgataa acatagaaga gaatttttat tctctaaaat ttacaaaaca 360  
 taaaacagaa catgacataa tagccaattn ttattctctt aaattttgat gacatatcta 420  
 gaggactaca aacc 434

<210> 19436  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19436

tctgcttgaa ggtaaactan atgccttggt taacctggta acccaactgg cegtgaataa 60  
 aaaatctgca cctgtcgcca gaatctgtgg tctatgtctc tctgtcgacc accacacaga 120  
 cctttgccct tctgtgcaac aatctgaagc aattgaacaa cctgaagctt atgctgcaaa 180  
 catctacaac aaacctctc aacctcaata gcaaaatcaa ccacaacaga acaattatga 240  
 cctctccagc aacaggtaca atcccggatg gaggaatcat cccaacctta gatggctgaa 300  
 tccttcacaa caacagcaac aacaacctta ttttcaaat gatgctggcc taagcagacc 360

at acgttctt tcaccaatcc agcagcaaca acaacaac

398

<210> 19437  
<211> 530  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19437

acaagacccg cacgaacgca aaagagaaca gaagaagcaa ntnaaaaaaa aagagaggna 60  
tnttgactga tacatngcan accngnaana anaaacncaa gcccccnanc nngggcaaaa 120  
cgggacgagg acgttagttc tatccnnggc aanncgacgc gcggaagcag cagaagccaa 180  
cactccaaca gcaggtctgc ccagatacac gcaaatcaca gcaggggaga agcaccacac 240  
ctgccccga caaacaccat tcgagactca acaccacacc gggaaaaatg ccagagggaa 300  
tggagacaaa gaagcccctg acgaagaccg cagaacaagc agccaacaag ctgacagcac 360  
acagcaggac agcagcctag atgaggacca ggaacaccac gcaaaccaag gcgagcggtc 420  
ccagaacgct accgagggca ggccgcgaag tacacgaagc acgcctgaag caaagccaac 480  
ggagcggaaa gaaatgccgt ccaaaggcgc agcagggaca ttacaagccn 530

<210> 19438  
<211> 334  
<212> DNA  
<213> Glycine max  
  
<400> 19438

agcttggcat aagaccggta ttctttatcc taccaagcca ttgctagctc taaacaaatc 60  
aacaagattt gttggaagtt tgcacacaaa ctaaaatggt gattgtctta tagacggata 120  
tatcactcaa cacttttagt cttttctctc aaggatatac aggtgtttta agatcttagt 180  
atcttttcaa gaatttacag agatattttt acaagaaaga acgaaagaat gactcacgtg 240  
aactgttcgt gtattgtttc ttcaaagctt cttctatata tagtcttcgt ctccaagtat 300  
ccattgtctc tcaatgggtg gatccttcac tcta 334

<210> 19439  
<211> 439  
<212> DNA  
<213> Glycine max



<400> 19439

tagagaggaa gcttcaatgg aggaacagaa tgagagttag agagagggag agagagatag 60  
atagagagag agagagagaa agagaaagtg gcatggaaaa ttgaaggaag aaagggagag 120  
aagttgaact ttgaagcgtg tctcacaaga ctctcattta tcaaagttgt gacaagtgtt 180  
acacatgttt ctatttataa cttaggtcac taactaaatg aaattcactt tttttgtgat 240  
tttcattttc atttcatgtg aatctaagag gaatattcca aggatatacc aaagaaatct 300  
tagcatattc caagaatatg ccaaaggctt cttagcatat tcctttttaga tgccacaaga 360  
atggaaggtg tgactctagc acatgggaaa ggaatatgcc tcaagaatat gccaaaggca 420  
tcttagcata atccttgag 439

<210> 19440

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19440

agcttgacgg agtttggcgc atcggggaac aatttcactt taaaagtggg tccaattgg 60  
attccaatt ttcaacttac ctatttgga gtgacatcat ggccgctatg tcccagctat 120  
ccattgtgga ttcagtcaca aaacaaactt gaatatgttg gactatctaa cacgngatt 180  
ttcgattcta tttccacaca gatgtgggaa gcactttctc aggttttgta tttaaacttc 240  
tctcgtaatc atatccatgg tgagattgag actacattaa agaatccact atctatccca 300  
actattgac taagctcaaa tcaattgtgt ggtaaattac cctatctatc aagtaatgtg 360  
cttcagttgg atctttcaag caattcattc 390

<210> 19441

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19441

tagagagatt cccgatctga gagggttctg ttctgttttc aacaacataa ctcaggtaa 60  
gatacaccaa atttgagaga ttccaatct gaggaggaat cttcccgagg attccagtat 120

cagagaggtc taggtgagtc aaggagctca ttgcacaaag gaaagaagaa attgccatac 180  
 cttctccaag taaatcattg tagctcaagt caagatatcg aagcttagag agattcccgga 240  
 tctgaggagg aatcttcccc atgaatccag taagagcgag gtcgaggtga gtcaaggaag 300  
 tcattgtccc atggaaagaa ggaattgaca taccagctcc aaataatata ttgccgctca 360  
 agtccaagta attcaaatgt tntaaatcag ccaaacaagg acttatctct ccac 414

<210> 19442  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19442

agcttcagac caaggcaact caaaatctat gtatctaaaa cccctcaatt tagtggattt 60  
 tcaaggtttg agaagtgaag atgagaatgg ggtaaattta gagcaaactc tcacctcaca 120  
 caagtctata accttaatct aaacttgctc aaactggttt ttcacctaaa attccaccaa 180  
 atcaaaatth gactcctcaa cacctaattt taccctagaa atggcttttg cttcacttt 240  
 ggtcttttgt ttttctctct tgcacagccc aagctttctc ataagtccta aatgacattt 300  
 caaactanga ctaactcact ttaacctnca atttctactg aatccagaat tagcctttca 360  
 aaccctcaaa gcatcacact ttttactca taacact 397

<210> 19443  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19443

tcctcggggc catttcttgc gagaacaaac attcagatgt tagttttacc agataatgct 60  
 taccttaatg caaaaaatgt catgccaatc cctctaattt agactaaact cataagatcc 120  
 attcatgcac acacgcatgt gtagaaaata ccctattatt tatatcaaca tacaaggata 180  
 ttcaaaacat tctagttacc atacatataa attttttttg aaagaatact tacacgcatg 240  
 ctcaaggtat tgtgcccata tgttcatatc ctaaacattt gctatttaca aactacctat 300  
 acatgtttga aatgtatatc atacaaattt ttattgtttc tctcatattc atttatatgc 360

atgtcggaaa gctaattaca ttatgcacac acttttgcac ttaaaagga ctntcatgcc 420  
atctaatacta 430

<210> 19444  
<211> 395  
<212> DNA  
<213> Glycine max  
<400> 19444

agcttcacca cataatcgtg acaaccaaac agaaccctat ccccgacatg cagaaccttc 60  
agcagaggca aagagacgga gaaagaagcg agcgcgttga ggaacacgcc gttgagcttc 120  
atgaccgaga cagtgtcgca gtggaagagg cagcgcggga gcgccacgta gcgcgagagc 180  
gagagggaga gctccacgcg ctcggcgcg cggcgcgcca cgtgacacag ccaagtggcg 240  
atgtcgcgcg cggagtagtt aggggttgcg cagcgaaggc ggaagcgctc gatggcgggc 300  
gcgtcgtgga ggaggagcac ggagtagacg aattcggcga agccagtgag acctccggga 360  
tgggtggaac tccgggagga ctgcgtcgtc aagtc 395

<210> 19445  
<211> 427  
<212> DNA  
<213> Glycine max  
<400> 19445

gtacgcacat tgtttgcgtg tatgatatcc actccttagg tttgttttag aggagagctt 60  
caaccttata acgcaacgtg gcggacaaaa gtgggcagat aacttgaatg gtcacattg 120  
tcaatgcgga aggtattctg cgcttcacta tccatgttca cacattattg cagcttgtgg 180  
ttacgtgagc atgaactact accaatatat aaatgttgct tacacaaatg agcacgtctt 240  
aaaagcttac tccgcacaat ggtggcctct tgagaatgaa gcggttattc ctcttttga 300  
tgacgcatgg acacttatca ctgacctaac tataattcgt gcgacaggtc ggccaatatc 360  
aacaacgata cggaatgaga tggattgtgt cgaaccatct gagcaccgac acaaatgtag 420  
catatgt 427

<210> 19446  
<211> 377

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19446  
  
 agcttgtgct tatcaaata ctctacatc tcctctctag catgcatttt ctttctttac 60  
 ccactcctca cgttttggttt tttagggaaa aacaccataa cttaaagcgc cgcaagggat 120  
 ccctatcgca ccagatccaa atctagaacg atgggtgatc aagaggagac gcatgaacag 180  
 atgaaagccg acatgtccgc tctgaaagaa caaatggcct ccatgatgga ggccatgtta 240  
 agtatgaagc agtcatgga gaagaacgcg gtcactgccg ccgctgtcag ttcggctgcc 300  
 gaaacaaaac cgactctctt ggcaactacg caccatcctc ccttcaacat agtacgacng 360  
 gtaagggaca cactgat 377

<210> 19447  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19447  
  
 cgctttgtag gtgaaatcag gtgcagccat ttcccttagt gtccctcac ggggtggagg 60  
 ttgtgccatg ttctcagaat gtgcaaaatc agaatgctca gaatcagaat tctcaaaatt 120  
 ataatgctca agatcaggat gttcaaaatc accaataaca gaatgcacag attcaccagt 180  
 aatggaatgc tcagaatgat caaaaggat aaaatgatgc ctaactaatc tatgaaatgt 240  
 cctatctatc tcaggatcaa agggttgtaa gtcagatgga ttgcctctag tcatacacta 300  
 cattcagcgt gcacacaact agttgccttg tcatgtaaata aaagggtgtag gtttgaacta 360  
 cagctaccct caaatgatat ccaaatgact tgaaatctta tgagcaaccc tataaaatta 420  
 tgagaagata gcac 434

<210> 19448  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19448  
  
 agcttctcct ccaattttct ataaataggg ggagaagtga agtgaaaaag gggtcagccc 60

cttaggcact tatctctctt tcgaatttgc ttggaaaaat tgtttctgtg aagaaaatcc 120  
aagccgagggc gcttctgaaa cgttttcgta acgtttccgt gaggaatttc gcgaagggtt 180  
cgaccgttct tcgacgttct tcattcggtc ttcatcggtc ttcatcttc aacgggtaaa 240  
tacctegaac caagcttttc gattcattct atgtaccgtt ggtgggtccac attgtgtttc 300  
gtgtattttt attctcggtt catttacttt gtatacccc ctttgacgtg ccttaagcca 360  
tttatttaag tcatttctcg c 381

<210> 19449  
<211> 272  
<212> DNA  
<213> Glycine max

<400> 19449  
ctattagcac acaccaaact cactagaaca ccccgagcgc cagcatgtg tgaaacatac 60  
cctataatgt atctgaacat aaagagatat tcaaaccata cctagtagca tacataaaag 120  
ttacggatga aagaagacta actcgcatgc tccctgtatg agtgaccgta tggtactaga 180  
ccatacatat gctatccaca aactgactat acgtgtgtga aaggtacata cggcaaatgc 240  
ataaagattc tctcatgatc accgacatgc ac 272

<210> 19450  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19450

agctctctat atgttgngc ataatttagg ggtctctag ttgcgaccac ccacctcct 60  
tgcccaaaag agacttagct tcttcatctt gcaattcaag acttcttacc tttttatcat 120  
tttcatgtcc atcatggcat catgtgagtt ctaccattta aaccatccac acagctcaaa 180  
tccttcgtac aaactggaat ctttgtttgt gttcaccatt atagatacgt cacttttgaa 240  
agttaaagtc gggcgtgcag gtaaatagta cagtcatggt ctataaaaat gaagaaaaga 300  
atgaagtaat aaacctttgt gggaattttg attttggtga ctatcagtaa acataaatcc 360  
ccatatatac ttgctaaaac aatggattag agctatttta gtcac 405

<210> 19451  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 19451

tcgtaattgt tgcagagaaa ttacagcctg ttctcactaa ctttttctta aatcactatt 60  
 cccttatatt gtttattttg ccaactttga tctgcacatt taaatatata ttaatgtcgt 120  
 gtttgtttca gacatgaaat gccattcata atttgtacac attaataaag aattgaagtt 180  
 ggaggtgatc ctgatcgagc aaaacaacaa ataaatatgt cagatgaata tgagaggagt 240  
 gaacatgctg atgatgactc ttcaatggga tcatcccaga aatgctcatc ctttgatttg 300  
 aatgaagaag ctagtagcaa agataacaat gacaacgatg ataagggatt cgaggaagca 360  
 agggaagaag gtacttcaac taataaaagt agcagcatga caaaggaagg aagtaatgaa 420  
 cggagaggtg gcgtga 436

<210> 19452  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19452

gcatgagcgg cgcttggcac ttgaacaaga tgtatatatt tatatatctc cctccaatat 60  
 gaattgtgac tgtttaaatt tcatttgctg gtttgccttg tgctttgttg cttgttttca 120  
 atgtggcatg tgatttaatt ttctgggcat tcttgggttt gaaattcctg acatcattat 180  
 tgctgttttt ttgcattaaa ttgattgaac ccttgaattt aaattgtgta aaatattctt 240  
 gcaaaaacca aaagttgttt ctaatgaatt ttccttgtgt attactacca tttatgagag 300  
 atgctgggtg ttaataatgt aacatcttta cattgattta tgatatggat aaaatgcatt 360  
 ctacactact gatggaggtt tataaagaat tataattnga agtggttactt gctggaaggg 420  
 ttttccatat 430

<210> 19453  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<400> 19453

ttaagtttat taagtgttga tgattataac acatatatat ctatatgaat tgttaaaata 60  
aattacgaat taatagttca aataataaaa tttaaattaa ggaaattaat atattaagat 120  
tcaacgataa atacttttaa tgcattttta gtttaattat ttattaacta tttttaattg 180  
aaaaaaatat agtttgattt aatatatata tgttttgtgc catgtaaata ttaatattct 240  
gtgatgtgta tttttttcat aagggtgcat aacatgttgc ataggaatta taacattgtg 300  
attgagattg gatgtatgtg ataaatcgag tatgtgttga attgaagata catgtgtata 360  
agatcttgac gcattgagtt gtgagctat 389

<210> 19454

<211> 221

<212> DNA

<213> Glycine max

<400> 19454

acactctatc cctccactt ctatgcaaca cataacaagg ctagttgtta tagatactac 60  
taataatggt gcatacagaa actgaaccta cggcttaata acttatacgt gccaaagtcct 120  
ttccatctgg atagattatt gataggggag acaacaacaa ccaatgccgc acttgaacat 180  
gtagaagcta agactacgga catgtcataa acaatattct c 221

<210> 19455

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19455

gggataagga cctactattc catggactaa ttatctttta cttatttnca tggttctggt 60  
aatttttttt ctacgaaaat attctagcac tcacgtatat atggaccgag aagaacatac 120  
gaaaaatatt atagcactca tacattttaa gaagagtga gaattgaaga attcatgact 180  
aaaataccat gggatgatgaa tctgagaagg aagcattcat ctctgagcgg ccttaagaac 240  
taattatctt tgtaaaactaa tttagtagca tatgtacata ttatttgcac tccaaataag 300  
atattatttt ttttattgaa attaaagaag agattacttt aaatcttaaa actaaatatt 360  
ggtccttaca ttaaaaaaaaa taaaaattct cacatcattc tatgaatata tatatatata 420

tatatatata ta

432

<210> 19456  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19456

ggcactcnat cttacacaaa ggntcatcct tcctctcgcg gaaactcagt atatcagtat 60  
tggcttcgct tctttttaat ctaggaagaa acggggtaag tacttacttt caacgtctcc 120  
cttagtagta aggctttgag atggacgagt attgagccac ttcaaggcat ctccaattaa 180  
agaataatgg aaaactctaa gataatgggtt ctcccttttta ttctgagcca tccttattgt 240  
actgcgtaga tcatatataa tgaccagggtg gttgtatgga tcttcatggc caagtcagca 300  
aatgcatggt gacaaaaaag agggatggat gtccgcttaa cctctgttgc tgggtattgt 360  
ctcttggtt gccatgct 378

<210> 19457  
<211> 424  
<212> DNA  
<213> Glycine max

<400> 19457

tactaagctc gaaattgcac aagcttatca actcggtttc acattaatat ggcttatcaa 60  
tttgtacaaa ttgtacaagc ttttctaaat gcaggaaaca cattgcaagg atactagaac 120  
acaagcttaa aacaaatata aggaaactta aataagattt aaataatcca acgaacctat 180  
gttttttttt tttttgcaaa aatatggtag gtagatagaa ttcataggaa aaaaagagat 240  
atagaaagtg gccacatggt aaaaagttaa cattactttt aatataaacg aacataatta 300  
cattaatttg tggactatct tctcaaaggt attgataaaa agaaatagac tattgaaatt 360  
gctttctagg tttgcaataa agcctttatt ttgcaaagta ctagtggtga aaccttgctg 420  
atat 424

<210> 19458  
<211> 371  
<212> DNA



<213> Glycine max

<400> 19458

tttgcttatc gttcaactga gaagatatcc ttttggttaag ggtggattct ttttgaggtt 60  
agagtttttg ttttaagcatt tccttgcacc cttcttccaa aatttcaagt gtcattggta 120  
aggattttac cctcttttca aggtcaagac attctaactt gaattgccct gatttcttgc 180  
actcacaaca aatgattgga ctgttttctt tcttatgata ggatcttttg gacgatccgc 240  
tgaacttgga ggattccttg tttctccaca tacttctgat ctttcttgtg ataagactta 300  
tatcattatc ttcttcatta gagtcatcat gcttatattc ttcttctaaa gcatcattca 360  
ccacaaagac t 371

<210> 19459

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19459

ttgagaatcg tcaaagacgg acatgaaaaa attttagtta ctttacaata ggatangcac 60  
atagattggg atttggaagt tatgtcaacc gccactgct ggacattgta taacgcagca 120  
tatctcaggg cgctacttat ggttacatat tgagttgaac agaggctcca gaaatgaagt 180  
ttaagcagtg aaacgtaacc atcccgaacta gacagaacct gagatacata tttgttacgt 240  
ctagacaaga tacaagtccg aacagcatat attgtttcca taaaattcaa tatatggagc 300  
agaacacaat cagataactc actcaacctg tgcttatctt ttatatttgt catctgtgtc 360  
ttcatcgctt ttctttctct tccttcatca tccattgata ctgaatgtgc tcggaca 417

<210> 19460

<211> 386

<212> DNA

<213> Glycine max

<400> 19460

ttatcttttc tgcttgagaa cattaggtct ttgtacatgt gcaactctaa gcgacattat 60  
gtaggaggtg gaaagattgt gtctaaaggt acaaacttct tcaatgctta aaactctttg 120  
ttataatcga ttacaaggct gatcatattc gattacacaa gtgtctgtag cttgtagaga 180

gattctagta tcggattatt catttaccag ttaactgtaa tcaattacgt aattcatttg 240  
 agaccatgtc tgagacttca tgagtctctg ctttcatcga ttatcagata atcgtaatcg 300  
 attactgaat tcttaagatt gttcccagat gcgatctaga acactttaat caacttcac 360  
 aataatctaa tcgattacat agttct 386

<210> 19461  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19461

nttaaccctt ttctaaatga taggctcaaa attttgataa atattccttt tcaaaatggt 60  
 ttgaagagat atgtcttttc aaaaagcttt ttctgaactt cttcactggt aatcaattac 120  
 aggtttctgg taatcgattg cattattata ttttgaaggg tcatgacttt tgaatttgaa 180  
 tttcaagagt ttcattgctg gtaataaatt acagacatat agtaatcaat tacatgttca 240  
 aaattcaaat tcaaaaccct tttcaacagc tattttctcaa acttcccatc tagtaatcga 300  
 ttacactgcc tggtaatcga ttaccagagt cttggatgac tttgaaacct tatgttttaa 360  
 ggcaaggctt gatcttgaag aaatcttgaa gcacgactct gtttgttgaa gcaatcttgt 420  
 attaatcttg aagcagt 437

<210> 19462  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19462

agcttttctgt acgatgtagc actactgac ttaaaaatac gtaaaccggaa ttaccgataa 60  
 cagacttcac aaatttgtgt cagtggtagc tatcgagctc ctctctctgc aattgccata 120  
 ttgatgctta ttttgtctaa cttcacctat cgagaattgt tgtgtcaagt atccatttat 180  
 gttcaacctc tcaaacatta ataaatagaa atctcattct tacatgaata catgcataag 240  
 taaccatggg cttgattgaa tatgaaggat gtctcaaact acacataggt ntgtaaattg 300  
 ttttgtgctt ttgcaatacg cagtcactaa actcctatag ttaactagcg gtatcaaaac 360

<210> 19463  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19463

tccactgat gagagtctgc tcaactcatgt tgtcactttt ctaatgattn tttccccttt 60  
 tggattgaca aatatagggtt gttttttgtg tatatttcgt ctgattgggtt tgtatcattg 120  
 atttctcttt gcagataaag gatggatttg ctgagggcaa ggatcttggt gtgtctgtca 180  
 tgtctgctat gggtgaggaa cagatttgcg cctgaagga tattgggcca aagaactagc 240  
 ttttggtgct ggcagcctgt tgtttctatt taagcaaaga tccttttgta agcctttata 300  
 ttggtttggt caagacctgg cttatggctt atagattcta gtcagactag tcttaacaat 360  
 ggtgtttatg gatgtgggtca cagaaactat atcacatttt ttctgggttt ctatgctgtc 420  
 ctatga 426

<210> 19464  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19464

tagcttctag aaggagatca acttgatggt ctatgcttct tgaaggtggc agtccatgag 60  
 gaatctcctt ggaaaagaca tctttaaatt cctgcaataa gggttgaaca ctaggagaaa 120  
 cataaatagt taactgatta gaattatcac tctctctctt ttgtgtatca ctcttttcct 180  
 cgggtgtatc actcttcttt ttcattatcc tttgtggagc ctcactattt tctttctctt 240  
 gttctctctt ttctctcatt ctgatttagg catcacatgc ttatctangg gatagagggc 300  
 taagaattaa ccacgaagat ttgacta 327

<210> 19465  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 19465

ctataaaact cagcttacaa ggctgcgagt ggggtttttt ttatcttttc ctttatgtta 60  
tcaaacataa aaagggaaaa ggtaatatg tagccgatgc tctttctcgg cgtcatgcat 120  
tactttctat gcttgaaaca aaattgattg gtcttgaatg tttgaaaagc atgtatgaaa 180  
atgatgaaac ttttggagaa atttttaaaa attgtgaaaa attttcagaa aatggtttct 240  
ttagacatga aggttttctt ttcaaagaaa acaaattgtg tgtgcctaaa tgttctacta 300  
gaaatttgct tgtttgtgaa gcacatgaag gaggtttaat ggggcatttt ggggtccaaa 360  
agactctaga aacattacaa gaacattttt attggcctca tatgacatag gatgtgcaga 420  
aattttgtga acattg 436

<210> 19466

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19466

agcttataat ctntcttaag tggggtgtat tcaatcctga atttttaaag attttttatt 60  
aaaaaaatta caattttcaa tcaaactttt aaataataaa aataagtctt attggtacaa 120  
atatttcaaa ataaatatca tgtgaagatt taagacttat ctgtttaagc tttagagaat 180  
aatggttcta gtttctcttt ttttttttag aagaaacat tttcacctca taaaatatat 240  
tgaaatagtt ctttagttta ttttttctga agacttgccc aactattata tttttgaaat 300  
atatctttta acttcaaaat attttccttt canaatcaaa taaacataac cttanacaaa 360  
aatattaaat tntatttagc agtttagaaa gacatggttg agttc 405

<210> 19467

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19467

ntacaaagat ggattataac ctactagaaa ataaatttat attgtattaa ttgaaaatta 60  
gaacaaaatt cttttctaag atgaaggaac taaatttatc tattttgaaa agacggcatc 120

tacactggtc caagaggtac ctttttttta agccattaga tcaatctcgt gcctacatta 180  
 ttacaataca ccatcaacac cttacaattt ctcaatcatc ctctttcact ttctgtcca 240  
 cactttcgct aacgccgaca gacacgtcgc tgctgaacct gcaacaggta aaccttgcc 300  
 ggcgacactt tatcacaaa gcaatttaga atcatgattc caacaatata acacacatga 360  
 aacctaacac ctcanaattc accaccaatc taaaccttgc aattgcaaca aagacacata 420  
 aatcagttgc atcaa 435

<210> 19468  
 <211> 216  
 <212> DNA  
 <213> Glycine max

<400> 19468

agcttctatt tatcagaatt tattagatcc tcattattta ttagtttcta aaacactaca 60  
 atctcctgac ttatcaacca aagaactttc agctatctca gaactttgcc cateattact 120  
 tgaggtaatc atactcagct tatcagaact tccctcttct tttatgttgg taactatttc 180  
 acctgattgt agacactcta agacacaatg tataact 216

<210> 19469  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 19469

tgtaggatta tggagtaccc atcacatgtg gtacttttgg gtttcggggc aaggtgcaca 60  
 acaagttgga ccatccacaa gacgcgcata aaccaccat cccctgatgc ccacctcaa 120  
 ctaagctcac gtactaccac gtagcccata tggtgaact ctctcaacac caggccccca 180  
 tcaatcctgg aggacgggac gacatcaaag taattcagca tgtaaacagc acaagctatc 240  
 tcagccaaac gaaacagggc gaaggcagaa aactctgccc aaaacgcca ccagaatcaa 300  
 agctcttcac atacagatac ccgagacaca ttgccttcgt tgcgattcgt taaccgttgg 360  
 atccactcga aattatgact gcaagtctct agtacataag cctacattca gaccgtaggg 420  
 atctact 427

<210> 19470  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19470

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agcttgagnt tattatagnt gaccaataaa aaagctaatt aagtttttag tcatgggggt 60
ttaaattttt tatccctaaa ctattntaaa aaaaaaatta attcctaaaa aatttgttgt 120
tattaaagt agttcatgtc attgatatcc tctattaaat aatgaaatgt tatgaaacaa 180
gtagatgtc aggtgtatgt catatatatg tcacgtaagt tttattacat ttaagtaaat 240
aattagaata ttatgttatt aaaatgtaaa aaaaaaaga aaaaagtcac tattgaacct 300
taacgcttca agcaccatga actacattaa ccatccatga gcagttcatc ctccatcatc 360
attatctatg atgatattcg tgaccattta agtaggaatt atttat 406
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<210> 19471  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 19471

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tgaacatga atggaggcct ttatctatgt tttcatatat cttaaagggg taaaaaaca 60
acctttcccc tagtccctaa cccctctaag cttagaaaaa aattaggaac acgaaactat 120
gctaagacct gctaatttct cgcttataat tcgctctata ttgagatcag aactgggtgt 180
aatctagaac gaattcgaat ttatactttt gtgggtctct aaaatcaagt cctatctttc 240
aaatgccttt ggtctcattc aatttagagt tccctacaat gttgtatgac tattatacca 300
aaacagattc agagagacca atctgtagat gactttgcat gtagaggggt atttgagtaa 360
gtacatgggt tgtgatgcac aagatatatt ctcaagtatt tctctgtttg tcttggttaag 420
gttcacgagt gtccatt 437
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<210> 19472  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19472

agcttctagc tttttcttgt ctgccttaaa ataaattggt tggctgctac aggttcgcaa 60  
atggagagag tggcaagctt tgcaagacct taaatcactt ttttcagaag aggcaagcaa 120  
atgcttataa agtttgggtct tttcttccat gtttatcact tctatttcag tgtcacttat 180  
tggttttctg ataaatatta tactctaggt tcttgatggt attgtatcca gcacaaatga 240  
tttggggcct ttcagtcttg acaatttcag aanaaatttg tctgcttcat ggagagttgg 300  
attangaaat tcaaagctg aacatgaggt ttggaagaat tatgtgcttc tgcaattctg 360  
catggaactt ttaatttggt aattt 385

<210> 19473  
<211> 437  
<212> DNA  
<213> Glycine max

<400> 19473  
aacttgtagt tgtatagcat ttggttactc atggctcaat cttaaagtaa tataataaga 60  
atttaatgat cgcataataa taaatgcaaa aaaaaattta catgatgaat caattaattt 120  
ttaattatta gttataactt ttagaatatt tattataaaa ggcaataaat ttatgatgca 180  
tgatccatgt atgacttatt ttctcaaatt ataatacata ctaggtttag tcttcttttt 240  
cttttttttt tttggtaact aggttttagtc atattttgct catttaaatt cagtgttgtt 300  
ttagtttctt caatttttta ttttaattaa tttttttctc ttttatatta aaaaattaat 360  
tatttaattt ttatttaaaa ttcttaaact accactttta ttcagaatct taaaaaactt 420  
aagtaaatta aattggt 437

<210> 19474  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19474

agcttgaatc tntatgttta tgatcaatag aattatgaat atagacaatt aattcactaa 60  
atatatgggt tcaattaatt ctgaaaagtg gatcagttcg attttttctt ttttaagatat 120  
aaatattata aattttaaat atatcttttt acgtcattta acatttatca attaacttat 180





aggatgggca gcttaccaag atgtcttctc cgcctgaca

399

<210> 19477  
<211> 432  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19477

tgtagaatta tggggtaccc atcacatgtg gttctatgtg gcggtcgggc gatggtgcac 60  
aacaagtttt ccacatcccc aaagcgcgca taaaccaccc atccccgtt gccacacctc 120  
aattgagctt acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 180  
atcaatcctc ccaagcttcc ccaacatcca ggtaaaacaa cattcaaaca taacaaacta 240  
tcacagcgaa gaaaacaggg caaaggcaga agctctgccc aaaacacaac tcaaaatcac 300  
agctttttct cacttaaaga cccagtaac atttcttcg ttccaattcg ttaaccattg 360  
gatcgactcg aaaattttac tggaagtctc tagtacataa gcctacattn tgaccgttgg 420  
gatctactag aa 432

<210> 19478  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19478

agctttgttc catataaaag ttaattcaaa caaaataaaa ttgatatagt tgtgacaact 60  
tctagggatga aaaagtttat caaatgatct atgagtgaag caccattatt aatccttaga 120  
tttattatta aaatatttcg atgggttcaaa ttaaaattaa ataattttaa acaaacaaat 180  
aaataaataa ctgtatttct atctttttca ttctaccccc accccaaca tctcaaagat 240  
gttccacagg aatctgggaa atcttaaaaa ataaaaattg ttcatacatg aaaaattgat 300  
aaaacattaa atacattntg tccataaaga aatgctctca tgtgtgtgcc tgtaaatcat 360  
tttcatcacg agaataacaa aataatctaa gtaactgaac at 402

<210> 19479  
<211> 432  
<212> DNA

<213> Glycine max

<400> 19479

taggcctaga ggggatggac cttttcaggt tttggatatg atcaataaca atgcctacag 60  
gttggacctc ccagaagagt atggagtcag caccactttt aacatttcta atttaattcc 120  
ttttgcaggt ggaactaata ttgaggagga ggaactaaca gatttgaggt caaatcctct 180  
tcaaggggga ggggatgatg caatcctccc taggaaggga ccagtcacta gagccatgag 240  
caagaggctc caagaggatt gggctagagc tgttgaagaa ggccctaggg ttctcatgaa 300  
cctcagggtg gatttctgag cccataggcc aaggtttgtt ccaattatct ttgtacatat 360  
tagattaaga tgtcattata ttttgtcttt gtatttaggg ctccatgatg taggtagggt 420  
accctagaaa ta 432

<210> 19480

<211> 398

<212> DNA

<213> Glycine max

<400> 19480

tcttgcttta aaatttgaat taaaacgttt agaaattggt ggtaatcgat taccatatat 60  
gtgtaatcga ttacacagtg caaattttga attcaaattt taatagctgt tgtaaactcag 120  
ttttggccac tggtaatcga ttacatcctc tggtaatcga ttactagaga gtaaactctc 180  
tgaaaaagac ttttttaact taaatttctt ggccaaacct tttgctactt caattggaat 240  
tcccttctta tttaatgtaa tcttcttaag acttttagaga ctgtcttggt catccatctt 300  
gaatatcttt gatttctttg tcttgaataa aactttgaga aacatgtaat cctttggcaa 360  
catcaaaaaca tcagcttgat cctttgtcta caacctac 398

<210> 19481

<211> 402

<212> DNA

<213> Glycine max

<400> 19481

tctgcttcta ttgctcttct tcatctttac ttgggctatc tcagaccttt tatgtttggt 60  
gtctaagatt ttgcatacac ctcttcaaaa gtgaagtgtg tagcttctct ccattcatttg 120

accaatgctt agaatatattt ctttttaggct gggaactagt aagacatcat ggatgagtcg 180  
 cataccttta tctgtctcca ccatgacagt gcctttgcct tttgattcaa ccacacttcc 240  
 atttcccagt cgaactttga ctttgacaga ctcgtaaatg cttttgaaaa tagtctcatc 300  
 cttggccatg tgattgctac atccactatc caagtaccag cttcctccct tttcttttat 360  
 tgagtcttga gtggcataga acgtacattg ttcttgatca tg 402

<210> 19482  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<400> 19482  
 taagctttaa ctatagaaga tctccaggat gggatatctt tatttaacaac tatttcgaaa 60  
 gtgcaaatta gggtatgaga gccttctttt agggttctca aagcgtatta gaggttctt 120  
 ttcaatggct actagatgta gttaagtctt tacagaactg agtgaatgaa ctgacaatat 180  
 tagaaaatta caggacacaa gaaatacctc cattattatc agttaatggg gcaagagtct 240  
 tcaagtgcac atgcagtgca tacgatgatc acaatcaaga cacgcacaag gcatgcgaca 300  
 agtgcacaaa cgtatgcaat gagaagaaaa acattataga acccacaac agcctgtaca 360  
 gtgaacagct gttctcgctc tccagacctc caaacagcga ttcaagcatg caattgattg 420  
 gtagtggcgg atgaa 435

<210> 19483  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19483

agcttcataa tgattagatc attatgatgc aatcctatcc cccaagggca ttggatagaa 60  
 gactccaaga agattgggcc agagatgtag gagaaggccc tagggttctc aagagcctta 120  
 ggatagattt tgggcccattg ggttttagtat gagaccactt atctttgtac atattagatt 180  
 aaggtttcat tatttttggg ccttgtattt agggttccat agtgtaggga ggctaccctg 240  
 gtaatatagg attttttagc ccttgttaatt tatggcacct agactagttt ttgtattaag 300  
 ggtagttntg taattttaca tgcattaagt gcactatttg at 342

<210> 19484  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19484

tcatcaatgt ttcttggttc aacctgtgaa acttaagctc atgttggttac acaaaattct 60  
 aagtctagag ttcgtagaaa caccctttga gatttctcca actatgttgt ctaaggggag 120  
 atccttttga gttctccact ctctaggaaa ttctttaggc attgttgtat agatctcttt 180  
 gctttgttca aaatcttcag cttgatgtc atattcaaga aaaaaatcct tttcctaaaa 240  
 acctgtatct tcttaaaaag aattttcttg aacaataaag ttagtttcat cacaaccac 300  
 acatataaat tcttcaacag ttaaagttct tttattgaat actccatatg ctttactatg 360  
 caatgaataa ccaagtaaga tagcctcatc agcctttgca tcaaattntc caagagagtc 420  
 tttatcattg tttaaaatga aa 442

<210> 19485  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19485

tagcttancg taaattagtc taaactttcg taagctatct aagctaagtc tagtccaaca 60  
 agagggatct gaggacgaag cttagttaa gttagtctaa acctatgagg gctgtctaaa 120  
 ttgagcctag tccaacaaga gggatctgaa gacgaagctt ccattcattc aatctcacta 180  
 gggatcgagg tttagtaatt tatgcttcag catacaacac aaaagcatga ttgattagag 240  
 aaacatcttt atatacatca gctgggttgt tagaaagacc caacatcttt acctattgct 300  
 tgtcaattta cttacttgca ttngtactgt ttttagccta aacttagtta attctgtcta 360  
 aatcatcaat catcaatggt ttt 383

<210> 19486  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 19486

actatagaaa ctaagcttgc acttgaggggn gacatacaag ttttggttgg ttttaaacac 60  
accacacgggg ggagcttcta atgaaattga gccaacacca ttttcatatt gttaatttaa 120  
ttacctttgc atgaggaact aatattgcgg tggaggaact atcatcattg tggccaaga 180  
ctcttttagg gggaggggaa g 201

<210> 19487  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19487

agcttttgat aaagaaagaa gaagaagaag ttcaaagaga ctcagaaatc aatgtggaaa 60  
aattgcttgt gtaaagaatg aattagaaaa gatagatctt aaaatgcaaa acaaagcctt 120  
gcttttatag actcttcatg tctggtcaag agaaccatta gaagagttat gacctttaga 180  
aaaacttaaa accaatttga aaaagtcaaa aactatttga agagttacat cttttgattt 240  
gttcagaaac tatcactggt aatcgattac caaatcagtg taatcgatta cacaaagctt 300  
ttttgtgaaa ggatgtgact cttcacaatt taatttgaat tccaacattc aaacacactg 360  
gtaatcgatt accanatcat tgtaatcgat tacaaca 397

<210> 19488  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 19488

tatccttttc ttttacagat tgcaacttta aataccttcc tatcttcatt aactagecca 60  
tcagatttcc tcccttgaat attggcattt caagagttct ccgccaattt cttctttgtg 120  
aagcattccc cttattctct cctattgaat tgtctcgcaa cctgcccttt ggcgggggtg 180  
tgaaaaggcc tatcgaatgg gccaaaggtg catcttccgt tgaaggaaaa tgtgtggagt 240  
cgccatcaac gtttatttga ggaaaacgtc agaaaaacca aaatggaaaa ggccgagggg 300  
ttgcgtgttt tgaaaatgag gattcgaaag ttgtttacgc aagaggaagg tattaacacc 360

cccacacacc cgtcacaagg gaaggcagcc tctaatagag tgtgaaaatt atgacttcaa 420  
aactatttat 430

<210> 19489  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19489

agctttatta gagagacaag cctgttggat tagagctaga ttangtgcta cgcactcttg 60  
atttggatgg gattgttaag ctcttcaatt tggaggaagg ggttgtcttt actgtcaata 120  
gaactcccaa tatcttgctc tattggatag tatttactct acaatgaccc tgataatgat 180  
tatgatttgg cttatgtgat ctctagatgg ttggatatgt agaaatccta ttagtactag 240  
tattctctca aaataagaaa ctagacgatg tcattattgg taccatacca aagcatattg 300  
acaatgtata acccctagat acctatactt cataaggctg agtattgcat atttgtctta 360  
gattttttaga atgtgagttt aagcctaact caaccccaaa gctag 405

<210> 19490  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 19490

ctaagcttcc gtaaagaagc agaaacaata gtggctcgtt gttttctgta tgatcagtta 60  
cttcactttc ttatcttcta gattcttctt cctatgcatg tctttgatct gcataatctt 120  
caactgttta taatttttta atcttaaata ttttaatgga caacattata caaaaactta 180  
ataaaaacaac caccaaattt tttgataaaa aatgcctttt ttccctctct catttactta 240  
catatttttc tctctctttt tattttgatt aatgtatagc tggatcaata catgattttt 300  
ctctctcaac taggttgggg gtcacacctt acaacatctc ctctctgatt tgattttctc 360  
tctcagctgg gttgggggtc acactttaca ccatcttctt cctgatttga ttgatgtata 420  
cgtggattaa tacaatgcat at 442

<210> 19491

<211> 395  
 <212> DNA  
 <213> Glycine max

<400> 19491

agcttgagtt gttaggtgaa gatacataaa tgatttcatt cattctatct tcttattttc 60  
 ttttcttgta agtacttatt gagagggtta ttcaaaaata tcatagcagg caacattcct 120  
 agactcatcg taacagatgc agcaaaacat ccatgccatg attaatcaag aattttaaatt 180  
 aaaaaaaaaat aggtaagtat aatcaacact tcatagtata aaccttacca ccaaattagg 240  
 aaacaagttt aatgagtcaa tagaggccag atcattaatg ttgttattag ctgtatgatg 300  
 aattgaaaga cattagctgg tatccacaat ccagatagca ttgcatatgt tgaaaatgat 360  
 acttatcaag aaggaaagta taatattacc caata 395

<210> 19492  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19492

ntaattcatt atctttgaag aactgactt gcttccattt ttttaattcta gaactggaac 60  
 aagtggagca agaccagat ttcataatgt tgtctcgcca atttaaagct actgcaatgg 120  
 agcttatttc tgttttggag ctggtaaagc tttgacctt aacacttcta ctaacattga 180  
 ctgaaaaaca tgacatgcta tttgagcatt gagctttaa aactctagta ttcttttaag 240  
 attggttgga taatattcatt atactccatg tttgaataaa atattttgtg ttatagatat 300  
 gaactttttg ttttatagt ataaactata gtttttaaga ttttggaat gccatccttt 360  
 ctgtgttgca tttgtattag ttgcttacat ttccttgctt tattatagaa aaaaaaact 420  
 ggtggttaga caaaagt 437

<210> 19493  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19493

agctttgctt tttttttctt cgccagngaa aggatcaatg tgggtccgaa aagacgcaaa 60  
 tttgatcatc ctactatgac gactgagaaa actggggcaa ataaagatgg tgaggatgag 120  
 ggagaaaccc atgctgtgac tgccattcct atacggccaa gtttcccacc aaccaacaa 180  
 tgtcattact cagccaataa caaacctcct ccttacccca ccaccagtt atccacaaag 240  
 gccatcccta tatcaaccac aaagtctgtc tacgcactt ccaatgacga agaccacctt 300  
 tagcacaac catataataa caccaacaaa aaggaatttt gcagcataaa gcctgtangg 360  
 ttcaccccaa attccggtgt catatgctaa acttgatccc atatctac 408

<210> 19494  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19494

ntagactcaa ctatcttcac tttcagggat ttagacgtga ttttcttctc ttcctatttg 60  
 gagctcgtct ctccaaatta agaccaacag agtccctccg tgggagctga tcacaagttt 120  
 gaagatgaac cttgaaataa atggaacaca ctagaaaaag gaaagactag tttgtatgag 180  
 taatttcaaa gctttttcaa caacagtttg caaatataag tttaaaagca agtttgaaat 240  
 tgttttgtcc aaagatgaaa attcgaggaa agggatatac atgttagaac aagaatactt 300  
 gttttttaac taattcattc aacttgaatt atgtctaatt cttcttcaac ctaaaaagag 360  
 ttccattaat caataattga ctacaaacaa gttttttttc ccaccaatgc ttgcttacia 420  
 taagaattct ctttgctg 438

<210> 19495  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 19495

agcttggtaca ttcaatttcg agcgttccga tatattacgg gactcaatcg gacatccgag 60  
 taaaaagtta ttgttgatg aatccggaca tagctgcaac attcaatttc gagattttcg 120  
 atatattacg ggactcaatc acacatccga gtaaaaagtt attgtcgttt gaatttgctc 180  
 agcgcttcgg tattcaattt cgagcgtctc gatattattac gggactcaat ctgacatcca 240



agtaaaaagt tattgacgtt tgaatttgct caaagcttcg gtattcaatt tcgagcattt 300  
 cggtatatta cgggactcag tcgaacatac gagtaaaaac ttattgtcgt ttgaatttgc 360  
 tcagagcttc aacattcaat ttcgagcggt ttgatattt 400

<210> 19496  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19496

ctcagcttct atataagctg aaccattnta tcaataaaga caagttgagt tttattcaga 60  
 aaattagagt ttatctcttt tatcttagtg agagtgattc tcctaaattc ttgagtgatt 120  
 caagaacacc ttggctgtat caaaggactt tcacaacctt tgtgtgttgc cctcgctgga 180  
 aagagtgatt ctttcttcc ttcatcttc acccttggtc tttcaaacca caattccaga 240  
 aaatccacct ctgccagaa ttatctcgtg gccataactc ccattttacg cactcaaatt 300  
 aagtgattct tgagcctaaa ttgaattcca aaacgagagc ttccacctcg ttttggaatc 360  
 acctcatttg gagccctgta gcttccgta ttgccatttc tatatttctg tccagccacc 420  
 acttaaccta cgtnntacca tcccattca 449

<210> 19497  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 19497

tcaatcttgc tctaaattca catggatgtg agtatattatg ggaggagggt gtatgtcatt 60  
 tctgttttaa gagtagtgct ccgctggtaa aactaacttt ccaaattgtt gccttcgcag 120  
 gaaatggccc cgaggaagct tgctcaaag aggtccagga aggacaatgc agcagaagga 180  
 actagttcog ctccggagta tgatagtcac cgctttatga gcgcggtaca ccagcagcgc 240  
 ttctaagcca tcaaggtgtg gtcgtttctc caggagcgac gcgtccagct caaggacgac 300  
 gagtatactg atttcc 316

<210> 19498

<211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19498

tctcccctat tntgctataa atagggggag atttgattat gaaaggggtt cagcccctta 60  
 ggcatttctc tctctctctc tcgaaattgc tgaggaaaat tatttccgtg aacaaaatct 120  
 aagccgaggc gctgccgcaa cgtttccgta atgtttctgt gagtaattac gtgaagattc 180  
 tcgaccgttc ttcaagattc atcgttcgtt cttcgttttc ttcagtcttc aacgggtaag 240  
 tacctcaaac caagcttttc aattcattct atgtaccctg ggtgggtccac attttgtttc 300  
 gtgtattttt attctcgttt tcatttgctt tttatacccc cttttgatgt gcttaagcca 360  
 tttatttaag tcatttctcg cttaatctaa aaataaaata aatttccacc gatcatttaa 420  
 attgtatcat c 431

<210> 19499  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <400> 19499

ttatatttgt gggcggacga accctgatga ccacagtggc atgatcgctg gctgacctac 60  
 accgatgttg tcagcagcct cttcacgggt cctcactg acccttctc ctactgaagc 120  
 atgtcgctg tgctaggcta gtggcgcat accatctata aacatacacc aatgacttgg 180  
 ctgacaccac ccacgagcgg gggcttttct cgcctatcct ttagggctcg acgacactcc 240  
 actgagggac tgggtctcgtt actgatgata tgactatagt gctactttac cttacgcagg 300  
 atatgactgt aagacatgtt gctgctaaca ctgttgatca acttggtacc cagagtacgc 360  
 actcgtaggc ttaaattgagt ggagacacct ttgggctt 398

<210> 19500  
 <211> 410  
 <212> DNA  
 <213> Glycine max  
 <400> 19500

tgtcctcggt gacgaagaca attgaataag cctctttttg cttttcacag gcgtcaacga 60



cgtaagagtt ggaataacgg ctcacaatta ggggtgagtt gtgatatgaa tctggcaata 420  
taattcaaac gt 432

<210> 19503  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 19503

agcttgctct tctgggagag ctaagtggca agctcctccc ctattttgcc ataaataggg 60  
ggaggagtga agaagaaaag ggttcagcct ttttggcact tctctctctc tcgaaattgc 120  
tgaggaaaat tatttctgtg aagaaaatcc aagccgagggc gcttccgtaa cgtttccgtg 180  
agtaattacg tgaagattct cgaccgttct tcaacattca tcgttcgttc ttcgttttct 240  
tcagtcttca acgggtaagt acctcaaacc gagcttttca attcattcta tgtactcgtg 300  
gtgggtccaca tcttgtttca tgtattctta ttctctttat catttgcttg ttataccccc 360  
ttttgacgtg cttaaaccba ttatttaagt cacttctcg 399

<210> 19504  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 19504

tgccacccag ctgcccagg cgagcaaggt tgttttcttc tattcaacag ctttctggag 60  
gaatcttctg gagggcccaa gtgggtcttg ttgctatttg caccgccatt tttactaagt 120  
acacccccctt gccttttttt gggtgattct ttttctgtaa agttacggaa acttacgaat 180  
ttcgtaacga tacttgtttt ctttccgtaa cgttacggaa ctttgtggat tacataatca 240  
tccccctttt gacttacgga atgttacgga acctcactaa ttgtgcaacg atgcttccat 300  
ttgatttccg gtatgtcatg gaaccttacg gattgtgcat caatattttc ttttgttttc 360  
cggcattgtc cggaatttca caaattgcct aatgatgggt gccaaagcacc tcacaaggac 420  
caaacaaaag t 431

<210> 19505  
<211> 217

<212> DNA  
 <213> Glycine max  
 <400> 19505

tctagcttct ccctcttttc cctataaata gggggaggag ggaagaaca aaacgttcaa 60  
 ccctcctggt atctgaggat cacttgaaat tagtgaaaa aatcgtttcc gagaagaaaa 120  
 tcgaagccga ggcgcttccg taacgcgtac gagacgtttc cgtgggtgat attgtgaaga 180  
 acttacgcca tccttcgttt gctatacgcc gatcttt 217

<210> 19506  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 19506

tgtcaagccc cccaacttgg acaagtgttg acttagtttt ttctgcctag gtgtctgggg 60  
 tggacatact tttggctttg caagtgagat ctgatgagtc atgtgagaaa agccattgca 120  
 tttgaagact ttccctttta ctgaccgctg gagagtgcct taatgataga catctcattt 180  
 tgtccattga tgcaggcgtg tgcatacacac tcgcaatact tttgcgtaca tgtcactcgt 240  
 ggatgacgca cacactggag acgtgatgca tgggtaagag gggctgtggt cgggtgcaga 300  
 aaattatggt accactctat cgccttacag ctaccgaaga gcatggctcc tctttatatg 360  
 gagcatacgc ttgatctgt 379

<210> 19507  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19507

agctttttatg ggatcaagga gtctactatg tgttcaaca gatggatgag gattccaagc 60  
 acatccta at agttaatggt ttagtggttg ctaaacaaca aaagttagc aagaataacc 120  
 taaaggctat gaagggtgcc ttggaacaaa gcttgaagga aactccaaaa gtgggcgtga 180  
 aagccataaa caagagaaaa caaaaagagg ttggccaagt ccattgttga tgaagacctt 240  
 ggtctgaaca actttggcat ttcaaggaaa attanaaaga tcatggttga aaaacaaaag 300

aagaacaaaa ccagaaaaca atctcatagg gatgaagaag aaaaggaaat ataggcaaag 360  
aagcatagga ccaaaagaag gcatgagtct attacg 396

<210> 19508  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19508

ntntctttnt ccattgctcc tcaatgacaa tctcttcttc ttcttcttat tgggcttgct 60  
tcctagtttg gacctttccc tgttgctctc taaggaccct ttgaaccttt ttatcaagtt 120  
caaaggtctt caaaggctta tcttcactag caacagtctt ggccagtttc ttctgcctcc 180  
tttgtaggat ttcacttga tttacttaag gaatagggtt gttccttcta gtgtcaactt 240  
tcattgcctt taggttaaaa gcaactgaagt gttgctatct ggcaatgaaa gttcccttgc 300  
tgttgatgga atgcttggag tcctcatcta gtctttcaaa ggcattggaat acctagtgtt 360  
cctagaggaa gttgttgatg aggggtggcag agtagatatc ttccactcct cccaaggcct 420  
tcatg 425

<210> 19509  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 19509

ttgcacttga ggaggggaagg aaatttgcag ctaatgaaca actctgataa ctacttgtag 60  
tttatgactc tcgtgctaatt tctatcacag tgtaaatatt cttatatcag tttgtccaag 120  
aacataatca tgtgcttaatt atcattcatt aacgggtcacg gatctatcgc actattaacg 180  
aactatggat atcagaccta ttgttaatta cattttgacc gtataaatat cttactgatt 240  
caagcagata gacgcttaatt acgaagttaatta attaaactcta atgggtcctg gaggaccocga 300  
atttgaacat gaattacatt gatcttgcac catgtttttaa acacctctga cacactatcc 360  
agctattatg catcatgctc ag 382

<210> 19510  
<211> 430

<212> DNA  
 <213> Glycine max  
 <400> 19510  
 tccacttgta tactgcatca gtaatatTTa atagctctat gttttccctc tcgtggatgt 60  
 agccttgatc aaaggtgaac cacgtaaatc tgtgtgttct ttctcatctc tctccccctt 120  
 tcaatttgct gcaaaatctg tgtgtatggc atttctgttc tgttgcatct actgttggtg 180  
 ttcttgattg ttcttcatca cttccataac aagaatgata ttataacaca ccaggtaaga 240  
 ggaaagaaga agaaacaaaa taggattata aaatagacgc aaatgattat aatgaaaaaa 300  
 aaaagtgttt tacctatgat gaggatgaag gcaacttaga ttgagtttat gaaaaaggag 360  
 aggatgtggt ggtttccata ttacctagc aaaaaaaaaa aaaaaaaaag aatagttcat 420  
 aacgaagttg 430

<210> 19511  
 <211> 201  
 <212> DNA  
 <213> Glycine max  
 <400> 19511  
 accatgacgc gacagactct atggccagac cgacatcatg agcggatgag ggggagccac 60  
 cttcataatg gggccatgtc tgagttgtac accgtgcaga tactgcaggg ggtataatcc 120  
 tatgcccgtc tacagtgggc ttattgataa ttgagccgga ctcttcctag atatagccga 180  
 ccaactgtga catatgatat a 201

<210> 19512  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19512  
 agcttctcct tccaattcat tccaaatagc ttcttagttt ttatatctaa taactaataa 60  
 tctgatcata tactacaacg tccctagctt aatttgcaga ataatgttac atatatatgg 120  
 catcctcaaa ccacatatgg catatactat ttattttcat cttttacatg atgtatatct 180  
 ggaccgaaag agacacgggt gacgggtcca ccccatcatg aaccatttat tttttataat 240

gttgaaagaa ttggcatata tagtagatta attctaattg gtttgaccat gatcaaggta 300  
 tctgaatttt ttgtacagaa tgaatatttt agtactgtca ttgcaagaga ttattncgta 360  
 tgagaactat tcataaacat ccatcat 387

<210> 19513  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19513

tcacatgttt gagcggactc atctagtga acatcttttt gatcttgaag gattttctca 60  
 agttttaaat gatctttgga tagattcttg aaataacttc atagattttt agaagcattt 120  
 gagagaataa ataagttaca taaaatttca tgataagatt ttttaagaga cttaggggtca 180  
 ttgaaattta ccacatcttc ctagtctgat ttggatcctt caaaagttgt gtctgtcatc 240  
 aagcatatgt tggcttcttc atcagacgag gtgtcgtcta ggtcttcaca tgtgctcata 300  
 agccccttat tttctttggt cttaaagaat ttcttcttat cttgactttt ctcanaatct 360  
 ggacattcat atttgaagtg tctaggcttt ttgcattcat agcaaactat gaagcttttg 420  
 tttttattcc ttttttt 437

<210> 19514  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19514

gcttgtcgta tcctctgcaa gtccaagggg gtcgaaccca aaatctccag caagactgaa 60  
 aagcatactg tttatgtcaa aaacttgaaa agagacagta gcaatagcag aacaagatgc 120  
 ccaagagaag tgtacagcct cacgttccat caagatgagg tgggggatca agtctctggga 180  
 gccatgtatg tcgctgttgc gcccacac aagtttgcct ataacgtgga gtggcagcag 240  
 caccatcccc aagccacgat aatcttccag ctggtgaacc tctatccaag ctcttggtgt 300  
 tgaataaaga gccgggctga atggagaagc ttcttcttat tgctacgggc attggtntct 360  
 gattatct 368



<210> 19515  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19515

atgctggtgt aagaaccgtg ttttcatttt gtttcttatg ttgngatcct tgatcatcaa 60  
 tcattttcttt ctggaatagc tgatgttcgt gatcggcaca gggatatgcg acttgatggt 120  
 gataacatgt cttatgaggt aaaatctcat ttctacatct ggatggaaat attaatatat 180  
 ctatacaacc atagtgtcag tttatccctt atatttcaag tcagtgtctc gcttttagaga 240  
 gtttctcatg tgacattcgt gactataaca ggagttgttg gctctggaag agcgcattgg 300  
 aaatgtgagt actggattga gtgaggaaac tgtattgaaa cacttgaaac agagaaagca 360  
 ctcggtctgan aaagggcctc agattgatgc agaaccctgt tgtgcttgtc aggtaaacct 420  
 gact 424

<210> 19516  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 19516

agcttctatg gaggtgaat ctttgagctt caatgaggtc cttcaatgat gattttcaac 60  
 catggagatg cagcggaaga taaaggagaa gaggtgagag gaggcgtcat ccactatgga 120  
 ataagccatg gaaggagaag cttcaccacc aagagagtgc cttggataag aagcttagag 180  
 aggaagcttc aatggaggaa aagaatgaga aggagagaga gggggaggga ggcacgaaat 240  
 tgaaggagaa aaagagagag aagttgaact ttgaagtgtg tctcactagt ttcacattcg 300  
 tcaaaattat gacaagtgtt acacatgttt caattatagc ctaggtcatt aactaaatga 360  
 aag 363

<210> 19517  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 19517

tgagcatgtc aacatgaagc atatntctta actgtcgtta actgatttac taaaaggact 60  
accaagatt tgttggaata ctcatcttct ttgtgaagca tgttataaag ggaaacaaat 120  
caaaactacc tttaaatccg gagatattgt ttccactacc agacctttgc aattgttaca 180  
tatggaccta tttggaccta caagaacttt gagtctaaga ggaaagaaat atggctttgt 240  
catagttgat gactattcta gatacatgtt ggtatagaga aaacggttat aactgtctgt 300  
aatttattaa atctataagg taattgatta ttgtaacaaa gttaccaatt agattatcta 360  
agtaatcaat taaagtgttc atccaatata tggaaaacaa ctcaagaaca atgtaatcaa 420  
ttatatgacc tga 433

<210> 19518

<211> 401

<212> DNA

<213> Glycine max

<400> 19518

tcaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 60  
gcagcacgaa attgaaggaa gaaaaaggga gagaagttga actttgagtt gtgtctcaca 120  
agactctcat tcatcaaagt tacaacaagt gttacacatg cttctattta tagactaggt 180  
agcttccttg agaagcttgt ttgagaaaac ttccttgaga agctagagct tagctacaca 240  
caccctctc ataactaagc tcacctcctt gagaagcttc cttagaaga ttcctaaaga 300  
tgtttgagct tagctacaca tacctctcta atagctaagc tcacctcctt gagatgagaa 360  
gctaaagctt agctacacac ccctataat agctaagctc a 401

<210> 19519

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19519

tacatattgg aaaggtacac tttcgaaagt ctttactgtt aaaaaagctg aattttttaa 60  
catgagatgt gaaattggaa agatgctaata ctacatagtt catacttttt tataaatgtt 120  
tttttttttg ccaaaatatt tttccacgag agaaagtga gttgtaatgg gatctgaata 180

aggtatcaac caagaaaaga aaatacagcc aaaaccaaag cagagagaca attagcaata 240  
 aaactaacta ataaaaactaa ggagtaagga accacccaaaa ttattcaggg tctctgtcct 300  
 gtgttgtaca tacattaaat aaatggcaag gttctaaaac cactatgcat aatctaacat 360  
 anaataaatt atataaataa atgcaggtac cttaaatttg atatggccaa gccaaagcttt 420  
 gaacataatc at 432

<210> 19520  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 19520

agcttttttat gggagtcaag aaaatgaaag tgctccgaaa ccattagctg gaaaagaaga 60  
 ttatgatcgg gtcaactaca tcgtaactat ctttggaag acccaaaaaga agccatcatc 120  
 tgagctaaac atatggaaga aaaggatcaat attctttgat cttcgatact ggtccgatct 180  
 tgatgttaga cattgtatag acgtgatgca tgtggagaaa aatgtctgag atagtttaac 240  
 tggcactctt cttaacatta aaggctagac aaaggatggg ttgaagtgtc gtcaataactt 300  
 gggttgagatg ggtatacgag agcagttgca tccgatctca caagggtccac gaacgtatct 360  
 gccccagca tgtagataa tgtcaacaaa agagaagtga 400

<210> 19521  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<400> 19521

tgttgtcttc gtttagtttc ttggtttag atatttttt atacaatccc accttgtgat 60  
 atccaccaga attgttcgca tatgaagcat acatcaatgg ggggtataat tccaacctta 120  
 ttgaaaaatt ttatttgcac aatatcactt gtgctcaatt tcttgtgacc aagtaacatt 180  
 gcacaatcca tttcatccaa catgtcatgg ttgtgggtcaa agtcaacata tgtaacatac 240  
 caatgatcgt tactaaagtt aacgtgaaca tgaaacctag cattgcaacc accttgtatc 300  
 attttttcct cacgttcct agttttcaat gtcaaaccac tatcatttca atatccaaca 360  
 tgagagcaaa taaaagtgtt ttgtaatggt ttcctataa tgtttctcat aacaatactt 420

ttacggacaa agaa

434

<210> 19522  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 19522

tttgtttggc ttggcttggc tcttaactgt gttgccctca aagttctgaa cattatcttc 60  
aacatcgtgc actgggttaa ggaaaaaat tattcaagat cacttggttag cgtctttggc 120  
attacgtggt atatggtttc ttgactact ttataatgaa attataacgc tcattttgat 180  
tctatttact tgattaaggt tttcttctaa aataggcaca gtctgtttgc tattgattct 240  
cttgtttgga aaagggactc ttgatttaat cttgaaatca taggaatttg acttctctaa 300  
tatgtgtaac ttactttaag ctcatgggtg cagaggaaga acaatacaaa tagatcagtg 360  
ttatgtgtct tatattgttt ttat 384

<210> 19523  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19523

tgttttaaaa ataatgattn tagatcaact aatacgtttt cataggaaaa tttgaacacg 60  
agggtgaaat ctttaattcag cacacacca tcattgggat ttttaattta cattagaaaa 120  
tgtgatctcg aagttaatt aattatttta gaggccttaa aagttatgaa aaattatgaa 180  
agcttaatag gttatatata tataaaaatg tacatcatat cgatggaaaa ttcattttta 240  
atattattct gttctgcct cagctccatc tattactctt gctcaacaag aaaatattag 300  
cagcttagat attgagcatt taaaagtca tcttgacac aagctttctg gtcagaaata 360  
tttactagta ttggatgata tatggggtga tgatcgtgca caatggatag tgttgaaaga 420  
tttaataaaa g 431

<210> 19524  
<211> 402  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19524

tagcttctat acctttataca agaatagaagc tctgatacca cttgttagac gagtggcctc 60  
agatatctta tgaagggggg gttgaattaa gatattccaa actacttccc caattaaaat 120  
ctatttcaact ttttattcga gttataaatt cccttaataa tgaacttctt aaatattgat 180  
tcaaataaaa caatttgaat atgaatataa agcaataata aacaaaggag attaaggga 240  
gagaaaatgc aaactcagat ttatactggt tcggccacac ccttgtgcct acgtccagtc 300  
cccaagcaac ccgctngaga gttccactat cttgtaaatt ccttttaciaa gttctaaaca 360  
cacaaggaca atccttcctt tgtgtttaga attccattac aa 402

<210> 19525

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19525

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ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120  
ttaagtgcag atgtccaaat ctttgatgcc atatattgac ttcattcttct ttggagacta 180  
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
tgctgccctt cattaggact tcaactcttct catttgtcac caagcattct gactttgtga 300  
agtttacatt gagtccttca tcacacaact gactgatgct gatcaagttc gcagtcagtc 360  
ccttcaccag cagtactttg ttcagactan gaagtccttc atggactagc tntccattc 420  
cagtgatc 428

<210> 19526

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19526

tttcatgcta gcttgaggcg agcgacatga agtttgcctt gaattggttt aaactttgtc 60

aagagatcctt cttctttctt gaccaattct gctttagatc gctctgtttt tttttttatt 120  
 ggccttgta ttagcataag tttttcctta gccttctgaa aacctttttg agcttgaatt 180  
 aacttatttc aatcctgctc tatagaagac tctatttcaa caatataaat tgtatgttga 240  
 ctatgtaatt gatgagcttt aaaggcatta ttgaagatat taaggaaaga ttccattttc 300  
 ctttngaate tcatcaacca ccaagttttg aaatttgaac acctcattga ttgattgttg 360  
 aagttgaggc ttgtaattcg gattggaaag agagtctt 398

<210> 19527  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 19527

tccgcttatt agtgcacaac tccttcttta atttagcata tcttgggaatt ttctttattg 60  
 catccagcag agatatgttt acctctactt ttctaaatgt ttctaataac tccttctctg 120  
 cctcttccat ttttttggtg gaaattgctc tttgagggaa tggaagaggg atatgttgct 180  
 tttgtaaatt agaattacca gtggaagatt cacctgcata gaaattgtta ggtaacttac 240  
 tcttttaaatt tttgtcatca tctttttctg gagtagagtg aggttgggta ggttcatttg 300  
 cggatgagga agatgctact ggtaaggctc cttgacactg ctttctgac ctcaatgtaa 360  
 tggcactcac atttttggga ttctggacag attgagaagg taatcagtca ga 412

<210> 19528  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19528

tataagaaca aaatngccta atcattttct tttgtatgtg aattacgacg catcaaaaag 60  
 aatcaagcca aggctattgt gcaagcaatc aatggggcaa aacacaccaa attattatga 120  
 tgatggatgg ctcaaattct cacaaggta aactcatcac tttcaaattg agctttcaaa 180  
 actatcatga catgtagaga agaataagg atttctactg tggcatttag ttttggggctc 240  
 taggggtggg tagtgaagtg agtcatacca tgatgggtca aatagatttt ttacttaata 300

gattcacctc cattattaga gtaaaatgag acaagtgagg tattgaaata tttttcatgc 360  
aagactctaa attttggaag aatagaagag acatctaatt tattctttta tggatacaac 420  
caacaata 428

<210> 19529  
<211> 396  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19529

agcttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60  
gtggatggcg ccgcctctta cctcttctcc tttgtcttcc gctgcatttc catggtggaa 120  
aatcatcatt aaaggacctc attgaagctc aaagatccag cctccataga agccccacaa 180  
gcaagcttcc atcaagtggg aatcagagca caagagcttc aattaggtgc tccttaaacc 240  
tccattaatt tttttgcttt accttctctt ccattattgg ttcttcattn tttctccatg 300  
tatctctca catgtcttgg tctanatgtt gttaacatga ttcttttagag tttcaaccaa 360  
ttaaacttgt tatagaagct agatttgant ttctat 396

<210> 19530  
<211> 424  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19530

tccatcaagt ggtaatcaga gcacatgttc tttttcttgt gtcctgtaaa cctccattaa 60  
ttntttttgc tttaccttct cttccattgt tgtttcttca tttttttctc catgtatctc 120  
ctcacatgtc ttgtgctaaa tgtttttaac atgattcttt agagtttcca ccgattaaac 180  
ttgctatata agctagattt gattttctat ggttcaaatt tcttgttttt gttcttgaac 240  
catgaattgt gttgagttta gggtcccttg agttttgtct tgttattttt tgtggctgaa 300  
acctaaacca taaaattcat acaaaaatat taaagtagaa taaaagctca taaatctaga 360  
gtgacttggt cacctattgt agttttgtca tagaagtcac gtctagtcac gatacttggtc 420  
acat 424

<210> 19531  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19531

agctttaatt gattaccatt gatgtgtaat cgattaccag caatgaaact cttgaaattc 60  
 aatttgaaaa gtcatgaccc ttcaaaatat aactgtgttaa tgcattacca gtgaagaatt 120  
 tcagaaaaag ctttttgaaa agacacattt cttgaaatca ttntgaaaag gcacgaaggg 180  
 cctatatata tgtgtgtctg acttcgaaaa gcaagagaga gattctaaga gaacttaatt 240  
 gtcaaagtct ctctcaacaa ctcttgggca aacacttgca aatctattga gaattcatct 300  
 aggaacttca aattgtatta tcattctctaa aag 333

<210> 19532  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 19532

tgtgcatcca atagcttgat gaggatgtcc cttatgttct taaaactaga ctgatccatt 60  
 tgcttccaaa gtttcatggc cttgcaggtg aagaccgcga caaacatctg aaagaattcc 120  
 atattgtctg ctccaccatg aaacccccgg atgtccagga ggatcacata tttttgaagg 180  
 cttttctca ttctttagag cgagtggcaa aggacttgct ttattacctt gctccacgat 240  
 ccatcacaag ctgggatgac ctcaaaagag tattcttaga aaaaaaattt cctgcttcca 300  
 ggaccacgac catcagaaag gatatttcag gcattagaaa actcagtgga gagaacttat 360  
 atgaatactg ggagagattt aagaagctat atgccagttg cccgcaccac cagatttctg 420  
 agcagcttct tctccaata 439

<210> 19533  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 19533

cagtttttgg tagacctaca ctacgggtga tgcactacga ggttgatcct aatgatcctg 60



atccactcaa ggatttatta cggctacgtg atcaactttt gagcaagctg aaaagtaatt 120  
tactaaaggc tcaacaatat ataaatatgc gagctgatta gaaaataaga gatgtgccat 180  
ttaacgctgg agatatgatt ttagttaagc tacagcctta catgaaacaa tcagcggcctt 240  
tgaggaagca tcagaagcta tgcatgcgct attttggtgc gtttatagtg attgaaaaaa 300  
ttggtacgat tgcataataa gaacaactgc ctgagtc 337

<210> 19534  
<211> 441  
<212> DNA  
<213> Glycine max

<400> 19534

cttgcgattt atccagctgg aatccataaa tgatgaggtg atattgaaag cttgctgttt 60  
atgcaaaaaa atggaatcca gaaatgaagt gacattggaa gctactctca atattgcaca 120  
atgtttcata gcctctcttt gtcacaatag ttcggcgatg tgaatcaatc atatcaaact 180  
ataagatcga catatcctga aaactagccg aaccatagcc tgcatttttg aattcgaatc 240  
tcaaatttgg aaatgggaaa gggtggaagg aagaagcaac agataccttg cacgctcttg 300  
ctgatggaag attgaggaag ctaacacgtg ttaggaagaa ataaaaaatt ggaaaaaatg 360  
gatagcacta acacgggaaa tcggttggtg tttattacta acatacagac tagtactatg 420  
atatcataat agtccttagt c 441

<210> 19535  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 19535

agcttttttg agtagaaaca tgggaccaac tcattttatt tcacaaagga agtcgtatct 60  
agtcaaggctc tgagagacca tacaagtttc ctaacgattt ctaattatgt gggccattaa 120  
gactatcata tgctgacaat agccgagaag cccatgaatc tcttcggggg cggagtaggt 180  
gtctgccatc gccttggcct tggctaacaa tcggggaagt tcttgactcc cgttcaagg 240  
aagagcatac cgatccatcc acatggatgc ctcttggtgt aaagagtcga tcaccctttc 300  
tctagcctct ttttgcgcgt atacttgggc atattcgctc gcaatcctat gctcctgggc 360

cgcggtata cctaactctt cttggtact

389

<210> 19536  
<211> 441  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19536

ctcagctgac cagaattatt gatgggtagg tgtgaatttt tttgttcttg ttgcggagat 60  
gatcgtacag cggtgaacc ataagcggaa gtttcttttg gtgaggtagc catggaaaag 120  
catagcgttt ggaatgattt cgtatatctc agaaggctat tgggaaatgc tggttaaaac 180  
acgaatgcca agcagatata aattttaatg aagaatgtat atgggcgtgt gacgcaacgg 240  
tcgaatttgc tttgcggtga acgtgctatt aatgttaagt gattcgtttg ggcacgttca 300  
gattgcagta gctgctataa tttctctagc agacaaatgc ccatcttgcc cctcagtttt 360  
tcaaactgat tagcatccaa agcctttgtg aaaatatctg ctattngctg ctcagtgtca 420  
acatgctcta gtgtgatcac t 441

<210> 19537  
<211> 401  
<212> DNA  
<213> Glycine max  
  
<400> 19537

agcttctaag aaagcttctc aaggaagcta cctagtctat aaatagaagc atgtgtaaca 60  
cttgttgtaa ctttgatgaa taagagtctt gtgagacata cttcaaagtt ccacttctct 120  
ccctctttta ttcttcaat ttcatgctcc ccctctctct ttctctccct ctttcttttc 180  
ctccattgaa acatccttcc aagcttctta tccaaggctc atcttggtgg tgaagctcct 240  
tcttccatgg cttattccct agtggatggc gcctcctctc acctcttctc ctttgtcttc 300  
cgctgcatct ccatgggtgga aaatcaccat taaaggacct cattgaagct catagatcca 360  
gcctccatag aagccccaca agccagcttc catcaagtgg g 401

<210> 19538  
<211> 436  
<212> DNA

<213> Glycine max

<400> 19538

gcttgatcatg atccgtctct ttggtgcaaa attgatatgt ccttacttaa cagcttataa 60  
ttttttaaca taccaaataa tcagccatga gcttacaagc gtacaagtgg aaaaattact 120  
caactcttaa agtatgttct acgtctgagt aatggaaata catattgctt agtatttaac 180  
tacaatgttt acttgactga tgagtagttc atcatagata ttgaaaggta acattgtctc 240  
ttattcttaa ttaccctta atttgtacat gcattattaa ataaccctttt aaaacaaaaa 300  
tacttcatca atattagtgc tcaagtctaa attaaatgcc acgtataata tttatataaa 360  
agttgttgtc atatgggatt gataagcgtg cgtgtgcctc gttatgtag gaccccaaat 420  
ttgaaacaac tagttc 436

<210> 19539

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19539

gatgatcgnc natgaaccct ttggatgaac gcgatactat agaacactca agtgggaccg 60  
tggtcccaga ctaataatca gaccgacgat actattggga ccgtgggtccc agactaataa 120  
tcagaccgac gatacgagtg ggaccgtggt ccagttctga ttatcagacc gacgatacaa 180  
gtggaacagt gggcccagag agaattattca ggccagttat gctttctggc ctgtaacaaa 240  
ggacattaag taaagacaga taaacgtaga ctaaaacgtg gtcgcatcag ggtgctggct 300  
tttcaagttc cttaagaatg gcctcaattt tctctatata ctcagttgga acacgagacc 360  
tgtccagggt aagcaccatt ttatcgccct tatacaatac tgtcgctcca ggagcaaact 420  
gatgtcgaga gcttaaacta gttcttgatg cagatgacgt ttttaagcaca gaagttaaaa 480  
gagtgataac ttcttn 496

<210> 19540

<211> 394

<212> DNA

<213> Glycine max

<400> 19540



<210> 19543  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19543

acaaactcaa gcttaggaac ccaagctctt agcttcaatg caaggaaaca tatttatgcc 60  
 taataaccta actnttggtt gtggaagtag gaaggcatga aaattatgac ttgcttgtga 120  
 gagttntac tcgaatttgg gctgccccat gaggggtaat ttgcacctaa gtagtgtgga 180  
 aaatacttta caatggtatg taaatatgtg tgtaaataata cngggcatgg aaaacacctc 240  
 tcaatggtgt gtatatatgt gaacatatgg catgaaattc cttgcaaagc gtgaatgagt 300  
 atcttcttaa atgaatagag gtcgcttcct aaatgaatgt atgatggcat ggaattccct 360  
 ttttacatgc aagtatgtgc atgacgtaat tagctttcca atatgcatat aaataaatgt 420  
 gagtgaacaa atgaaagt 438

<210> 19544  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 19544

ttgcttgtga aataaaagtg tcaatatgtg tagtgtatac actggggcgt cgaaaattta 60  
 aagaaaagaa tcaacaagat tgaaaggcta atatatcctc tataacaaaa tcacaaccac 120  
 acaatattta tgctccttat aaagaatcct aacgcctaag gtacacactc aacacaagaa 180  
 cacatcaatt ttacaacaaa ttcgcatcga aacaccaatt ggtccatcaa acacactaaa 240  
 tccgtgatta aaacaaaaca acacatagtt gaacttcata aaacattcca aaataacca 300  
 taaattgatc ctcgatgtag tcgctcaagc gttattcgct agcaatgaca ttactggtgt 360  
 tctctaaagc tcctcttcg attgctct 388

<210> 19545  
 <211> 396  
 <212> DNA

<213> Glycine max

<400> 19545

tcaaggttat gacttcattg tgctcatcct atctctaata tacacaccac aaattctcct 60  
catgttagcc ttgaccttg agttccaccc atatttttagt gcaaaccaag aacctgagaa 120  
gattatactc attctttacg gctgggttag gttgagtggg ttggaagcaa gaaaaaata 180  
ctccctccgt tactatttac aaaaggttgt agtcgaattt aagctaatta agtattaaca 240  
agtactaata tcaattaata agacattaag aagtaacagt aacaactata aaaaatagta 300  
tcaattatta atcatcaatc atgcgtcatc aatatatata ttatcttatg tataaattat 360  
aaaataagat cttatcacat aacaatgact atgttc 396

<210> 19546

<211> 395

<212> DNA

<213> Glycine max

<400> 19546

ttgcttttca ctttataaag ggagagttaa gtatgaattt tgatgatacc atctgatgta 60  
attctacccc ccaaggggtat tggataaaaa acttcaagaa gattgagcca gagatgtaag 120  
agaaggctct aggattctca tgagccttat ggtagatttc ggacccatgg gctaagtatg 180  
agctcactta tctttgtaca tattagatta aggtttcatt atttttgtgc cttgtattta 240  
gagctccata atgtagatag ggtaccctag agatatagga attttcaacc cttgtatttt 300  
aaggcaccta gactagtctt tgtattatgg gtagttttgt aatttcactt gcattaagtg 360  
aatatttgat gtgtgtgttg ggaaataaat ttaat 395

<210> 19547

<211> 411

<212> DNA

<213> Glycine max

<400> 19547

tgcataggat aaattggagt ggaagccaag actgagtttt ctgagacata aacaacatgc 60  
cctatttaac aacttacctt ttcaagaggc caatctagat tgcaccttct ccacaacatc 120  
atcaaagtca aatttagtca ctcagtcagt tagaggtttg aaaccaagt acttcccaag 180

tgattagtgc aactaatctc aagaatgttt gaaatctcat cttgaatcct ttgaggaact 240  
gcaagagagc aattgtgaat ataattatct acattcactt taagaccāaa agccctacaa 300  
aattcatgca gaaccaaatt cacaactcta gcttgatcaa ttgaggcctt acaaaaaaag 360  
agaacatcat ctgctaaaaa agatgagata agggaggacc cctcgagata a 411

<210> 19548  
<211> 393  
<212> DNA  
<213> Glycine max

<400> 19548

ttgcttgttt agtgatttta agcttttctt tcaagacata tgcactttgt ccctccactt 60  
gagagtcttg ccatatctct ttgactacct catgaaaaga tggatcttat aaccaacaag 120  
tgagcattct aaatggttct ggacccaat catagttgtt atttttaacc aagatagggc 180  
aatgatccga aacgtctcta tttagaacct cctgtattaa tccttgccaa acatctagcc 240  
acccttagt gcatatgact atatcaattc agcgtttagc tccccattta tacaatacca 300  
agtgaatttg tggttgatca tatgaacatc taaggatttc aagttttcat ataggcattg 360  
aattcctcta tttcctatgt caactatttc tac 393

<210> 19549  
<211> 423  
<212> DNA  
<213> Glycine max

<400> 19549

gacctaagat actaacctta aaaatgacca catcattatt tagatctgtt gtttctttag 60  
ctttttacgc attaagtctc taacgatata ttactcactt ttacttttta taacttttaa 120  
caatttttct cttcaactca acaactttta atagagggtc atatcaagaa taattctttg 180  
tgaagttact ctcttcaata atctataatt atacatacat acatatatat atatatatat 240  
atatatatat atatatcaca ttaaattaag tttatttaac agagtatcat ataattgcaa 300  
gatttataaa cttaattaac tcaataaaaa ctctcagttc tatggatgaa taaaatttaa 360  
tacagagacg atcgagactt acactaatct ctgaagatac acacgtgcat cttcctttat 420  
tat 423

<210> 19550  
 <211> 51  
 <212> DNA  
 <213> Glycine max

<400> 19550

agcttgttga tgtggaacta ttgcttgcat gtgggtgtgt ccgtcgcttg a 51

<210> 19551  
 <211> 188  
 <212> DNA  
 <213> Glycine max

<400> 19551

tgtcacgcaa gctttcatca ccaactagcc ttattgattt taactgcaca gcgactttaa 60

gggccaatg agtctctgat gcttatatca cgaacttatg tacgctcaac cttggctgac 120

gatatcaatg gtgatcgga ccataagtag atatgaaata ctttcaacct tggccgagag 180

aggttact 188

<210> 19552  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 19552

agctttcttg gaaaatgtta ttgttttgaa ggcaatgctt agaggctttg agatggcctc 60

tggtctgaaa atcaactatg ctaagagtca attcggaatt tttggagatt atgttaactg 120

gtctcaagaa gctgctcact ttctgaactg tagacagatg gagattccct tccactactt 180

gggcatcccc atttgggtca gatcctcaaa tcaggtggta tgggagcctt tgatcagcan 240

atttgaagct aaactcacta natggaacca gaaaagctta tctatggctg gcagggttaa 300

tctgataaat tctattttga acgctntacc aatctatcta ttatccttct ttaagttacc 360

ccaaagaata gctgata 377

<210> 19553  
 <211> 420  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 19553

tcncttctt cccacgttct tgcccttgaa acctcacctt ggtctcacta ctcttcacat 60  
cacgatgttc ggtgtccttg aagaggtgaa cctcatctcc tctatcttct tctcttcaaa 120  
caatcacgcc aaataaaacc cctttgacaa cgagtgtctg tcgcgaagat aaaaaaccct 180  
taccgaaccg gatgagtaaa aataagacgc acaaaggaaa atgtatccta tgcaataata 240  
acggtggacc taagtctgaa tatcaaactt agaagactag ttgtgttccc aaataatcaa 300  
tttagcaaca attacgcaaa ttgagtttta tcaaattaag aaagattggt ttgatcaat 360  
ttactcttta acgaagagaa gaattaacac acaagaactg tgtgagaaac atttataatg 420

<210> 19554  
<211> 356  
<212> DNA  
<213> Glycine max

<400> 19554  
agcttgatat gaggaagtgt tgaagggtga aacttctctg ttttattggt gaccacagag 60  
tggtacctgg agatatgtcg cggggggtcaa gagaccttgg ggacgtcaag tgggggttcta 120  
ttgccccaaa ccaagcttga ccaatcccga cccaaccgg gcatagtcga tcagtgagaa 180  
cctatgatgt acctaaacag gcgagctcct ggcagtcaac agataaaagg agcaaagacc 240  
acaaagcaag gaggcttgtg gtggctggcc agttgtgaaa cttgattgat atgtgagata 300  
tggtctctgg taatcgaata ccaagggtgg gtaatcgatt acaaggctta aaaatg 356

<210> 19555  
<211> 443  
<212> DNA  
<213> Glycine max

<400> 19555  
tgcgtcacia ttcattgtga cagtcaaagt gccattcact tagcaaatca ccaaatgtac 60  
catgagagga caaagctcat agatgtgaaa ctacacttca tcagatatgt gattgaatct 120  
gagaagggtg aggtagagaa gggttcaaca taagacaacc cgactaatat gttcaciaag 180  
atcctctcta gtgtcaagtt caagcactgc ttggacttga taaattgtga agatgcctaa 240

agcacattgg ttgaagtgca gccttgaatc acaaggtaca cacttgctga tttagagtca 300  
aagtggagat ttgaggtgtg tgactcagaa tcacaaatga cacaagtgat aatactatag 360  
agtaatgatg tcataactgt tttcacttat tataactgaa ttggggttgg caccaaagca 420  
tagctagagt gttcatatat att 443

<210> 19556  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 19556

agcttgtctc atcgtttatg cgagacggag accaacaatgc tagctatcat cgccaagtac 60  
caagaagagt taggtctagc cgcgccccac gagcatagga ttgoggacga atatgcccac 120  
gtatacgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180  
atgtggatgg atcggtttgc tcttaccttg aacggggagtc aagaacttcc ccgattgtta 240  
gccaaaggcca aggcgatggc agacacctac tccgcccccg aagagaatca tgggcttctc 300  
ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360  
tgtatggtct ctaagacctt gactagata 389

<210> 19557  
<211> 431  
<212> DNA  
<213> Glycine max

<400> 19557

tgtacgcaca tcgttcgctg gtatgatatc cactccacaa tgtttgaagt ataggagagc 60  
ttcaacccta taacgcaacg tggcagacaa aagtgggcag taaacttgaa tggtcgtcat 120  
tgtcaatgca gaaggatttc tgcgcttcac tatccatgtt cacacattat tgcagcttgt 180  
ggttatgtga gcatgaacta ctaccaatat atagatgttg tttatacaaa cgagcacatc 240  
ttaaaagctt actccgcaca atggtggcct cttaggaatg aagcagctat tctccttct 300  
gatgacgcat ggacacttat cctgaccca actacaattc gtgcgaaagg tcggccaaaa 360  
tcaacaagga taagaaatga gatggattgg gtogaacat ctgagcaccg accaaaatgt 420  
agtagatgtg g 431

<210> 19558  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19558

agcttgtgct ccaacactgc ataggaagtg atgatttcgt tgcttgcagt gtgaaccaac 60  
 accttgcgct ctgagccagg gttctccacc agcctcacca caccgttctt gaaaacccaa 120  
 accccagaca tattcttagc ttagaaacaa gaactagagg cacaacaaat tgaagaataa 180  
 gaagaacaaa ttaataccaa gtgttttgag tgtttacttt tgagtgcctt tgagttagt 240  
 tgcaatgcaa gatggggagg ggagtatggg gtattgatgt atatatagtg gtgggtgaatt 300  
 gaagtcattg gtaagatggg ttttaattnt tttttttata atgtagaaat aataaaaact 360  
 acatggtggt gataaggaca gtatattgag atg 393

<210> 19559  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19559

cgcacactat agacactcaa gcttgttgaa gggtagcttn tggcaaatcc tgattactga 60  
 atgtctttct tgttattaat taagagcttg gctatgggtgc aaagtaataa gctagccttg 120  
 atggatctgc aagctcagca ccaaggcttt cttcttctat gatattcttt atttattttt 180  
 gttctttatt aaaacatggg caattaatca tagattaata atttattagt ttttttttta 240  
 actttcttca gcttttgact aatacatatg tcctttgcat tggctgcaaa ttgatgtgtc 300  
 gccgcttgca atttggttaa aaaataacct atccttagaa cagactaaga gacacagaga 360  
 tgtagggat atttttattc aagttatgtg ctaggggtta gagagaaaat attanaaaat 420  
 aaatgtccgg atagataatc cactgtcata tgggactgat 460

<210> 19560  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<400> 19560

agcttgatg gttaaagtct cactgattgac acgtgctcat gcaacaattg ttagtcgtgg 60  
ctatacgaga catcttgcca aacaaagtaa ggtagcgat aactcgctg tgcttttttt 120  
ttccatgcta tatgtagcaa agtcattgat cctgtcaagt ttgatgagtt ggaaaatgag 180  
gccgcaatta tactgtgcca gttggagatg tattttcccc ctgctttctt tgacatcatg 240  
attcacttga ttgtgcatca ggtcagagaa atcaaagtgt gtggctctgt ttatctacag 300  
tggtatgtacc cgattgagtg atacatgaag atcttaaaag ggtatacaaa gaatctatat 360  
cgtccagaag catctattgg tgagaggtac att 393

<210> 19561

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19561

ntaagtntga gggagtttga taatggttgt gcattcctat atttgcaatc tatttcacaa 60  
caattatctc acttttcctt gaatcgtagc taagtttgcc cttgtttaag ttagggaata 120  
tatataatta gttagatatt ttcatacagt taaaatttag aaaacttatt agcttttaca 180  
tgttttttaca gtaattcagt catttttagtg cacctggaag gaaattgagg gtttggaagt 240  
gaaaattgat cactcaatga gtttgccaag tagcttaact aggaagccat attagaagaa 300  
gacacgtggt agctggtggc taagcaagaa gtctatctct cttagcagat ttctcttgag 360  
gaagccatgt caacagcatc aaggctcggt gagtgatgca gcctcttttg aagaagaaaa 420  
aaagtgatcc catganaaat t 441

<210> 19562

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19562

agcttcccag atccgatcat ggaaggactt ggcaactgcc tttattagga agtaccagta 60  
caatacggat atggctcccc atcggaacca gcttcagagt atgactaagc gagagcatga 120

gtccattaag gaatatgcc aaagatggag agatctcgca gcccaagtcg tacttcccat 180  
gaaggaaagg gagatgatca caattatggg agatacggtta cccacgttct actatgaaaa 240  
gctgataggc tacatgccag ctaactttgc ggatctcgtc ttcgccggag aaaggattga 300  
atccagacta cgaaaaggca agttcgaata tgcttccaat gtggccccca acaacaatag 360  
aagagccnca gtaatgggag cgaggaaaaa gga 393

<210> 19563  
<211> 440  
<212> DNA  
<213> Glycine max

<400> 19563

ttccctttgg catcatcaaa acattcagct tgatcctttg tctacataga tgactctcaa 60  
aaagcacttt ctaaaagata agatcgaatc aaaagtcact aataagaaag aacaagaaat 120  
ggatattata attttaacaa acaaaactga tttcatcaat tatcaaagt ggtaattgat 180  
taatttgcta aatttctct ttgttcgca tttccaaaaa catggtaatc aattacaaat 240  
tgtgggtactt gattatctcg tttcacaag agcttctcaa gcttccatgg tttcgaaata 300  
atcaattatt ttgacacaaa gagctattaa agtttccaga tgtgatggaa gcttgcttgc 360  
ggagcttcta tggaggctgg ttctttgagc ttcaatgagg tcctttaatg gtggttttcc 420  
accatggaga tgcagcggaa 440

<210> 19564  
<211> 318  
<212> DNA  
<213> Glycine max

<400> 19564

tatcttatgc gcatatttac ttacaaatgt tctcttgac aagacattct attaaccgaa 60  
aaaatgcacc catatacaat caaggcaact ccgttaccta gattatttac acgtatttcc 120  
aagggtgatt tgttacttac atcacacaca tctccttggc taaattcaca tacatgcata 180  
cccatagcat tatgggggtac caaaaattgc acatgtacac ctcttggtat ttctaatacc 240  
tatacatata ccaactttat gatgaatctt gactatctac acaataaggt gctacattca 300  
tgctctttca agttttgc 318

<210> 19565  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19565

tgttgtcatt aaatcttaca tgaattgtct cttccatagt caaggtttnt gatttgtaca 60  
 ctctatatgc cttggatgat tcaaagtatc caatattcca aaatcacatt ttgagtcaaa 120  
 ctttccaagg ttatccttgg tgctgaagat gaaacactgg catccaaatg ggtgacagtc 180  
 ataaatgttg ggcttatgtc cctcccacaa tacataggaa gtctttttta agattgacct 240  
 tatataaatt atgttctgta aataataagc agtgattgct gcttctgccc ataagtgttt 300  
 cagagttaag tagtcgttaa gcattgttct tgccatttcc tgaagagatc catttttctt 360  
 ctcaacaact ccattctagt gggatgttct tggagtacac aaattattat aataccattc 420  
 tctt 424

<210> 19566  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<400> 19566

agcttgtatg ctaactggat gcattggtta acttggtaac ccaactggcc ttgaacacaaa 60  
 aatctgtacc tgttgcaagg gtctgtggtt tgtgctcttc tgctgaccac catacagacc 120  
 tttgcccttc catgcaacaa cttggagcaa ttgagcagcc cgaagcttat gctgctaata 180  
 tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcagaaa aattatgacc 240  
 tct 243

<210> 19567  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 19567

tgagatgagg aagtgtagaa gggtgatact tcttgctttt attcgttgac cacagagtgg 60  
 tacctggaga tatgtcacgg gggtcaggag atcttgtgga cgtcacgtgg ggtgctattg 120

cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcagcca gtgagaacct 180  
 gtgatgtacc taaacaggcg aggtcctgac agtcaacaga taaaaggaac aaagaccaca 240  
 aagcaaggag gcttgtgtgg tggctggcca actgtggact ttgattgata tatgggatat 300  
 ggctctggt aatcgattac caaggggtgg taatcgatta caaggcttaa aaatgaagac 360  
 aagagactaa gatggtctct ggtaatcgat taccaaggga gtgtaattga ttaccaggct 420  
 tga 423

<210> 19568  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19568

tgctttatga atcaaaattt gtcgcaatga gtcattcatt ttactaattt atatacagtc 60  
 catgcatgtt ttcttactgc cattattctt tgcagccagt tgaactttgg agtggtaagc 120  
 agctatttag cattatactg cgccacatg ctaatatgag agtctatgtg aatcttactg 180  
 ttaaggagag aaactacact gaagacaaga aaataaaaga caagaaaata gaatggaaaa 240  
 cattgtgccc aaatgatggg nttgtttatt ttcgtaatag cgagttgatc tctggacaag 300  
 ttggaaagggt tacttttaggt tagttactct aaatttacct tgtttatttc atctcatatt 360  
 tctatgctca agacgattgt ttaact 386

<210> 19569  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19569

tgtaacttac accccacaat gaatctatat tgntggatgt gtagatgtga tccaaagaga 60  
 catgggggtg agaagagggtg gaaggcgacg ccgatgtcaa cacgatcgat ggaggaaactc 120  
 ggggagttga agaaagagga ggcggcatct caggagcact catggttgte acattggcac 180  
 taaacaaggg tgtagtgaca gtggacggag gaaccacgac atgattagcc gaaacgggca 240  
 gcgtaacaac ttcagcaata ggagcaacct tctgaacaga cacacaaaga agagatggag 300

gagaaggaac atcaatagca acaggaacaa caaaagatgc ttggacaaaa aaacagagct 360  
agaggcggat cctgcaaact tgaggggtga cccaaactga gcatcaacct tgcatgccta 420  
cctcatcacg 430

<210> 19570  
<211> 354  
<212> DNA  
<213> Glycine max

<400> 19570

tttcttttca cataatgcaa gttctatgag tatgagacac tggatttata tgaaggatca 60  
agtctacgga ttgatagaat atgtagatt catatttact ctctgacatg aaccatgctg 120  
aaagtattga ttcgtgatct atagcatcgc ctattattat attgatgtta aatgaagtca 180  
cgtgaaccgt acttattcct ttttatgata gatcctgtga agctattaga ttgatccttc 240  
gctcctatga cctataccat acgttataca atgtcgagtg acacatatag ggatgttaca 300  
tactgaattc ataccattat ctctgcctt atgcactaaa ccattctaca ctgt 354

<210> 19571  
<211> 321  
<212> DNA  
<213> Glycine max

<400> 19571

tgtgagagag gacctggact attctttggt ggggtggcatt atcggaactg acgagctgac 60  
tgcttgctca ctatccaata agagtgcggc tctacactcg tacgccacct agcacatgat 120  
gcttactatg gtagggcagt acaatgtaga gtcagtccag gctgttacct atgaacacga 180  
gcatgcagac gatttcgcca tgtgtgcacg aaattggagg ctagaaggag cgtgatggat 240  
gctctgagtc gggaggagac tatgtggatg gaaaggcaca tcttgacctg acatggcagt 300  
cctgaccgcc caccactact a 321

<210> 19572  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations



<400> 19572

ttgcttggtgc atccaatacc ctgatgagga tgtcccatat gttcttaaaa ctggactgat 60  
tcatttgctt ccaaagtttc atggccttgc aggtgaagac ccgcacaaac atttgaaaga 120  
atttcacatt gtctgtctca ccatgaaacc ccagatgtc caagaggatc acatatttct 180  
gaaggctttt cctcattcat tagagggagt ggcaaaggac tggctgtatt accttgctcc 240  
aaggctcatc acgagctggg atgaccttaa gagagtattc ttagaaaana gtttcctgc 300  
ttccaggacc acagccatca ggaaggatat ctacgtatt agacaactca gtggagagag 360  
cctgtatgag tactgcgaga gattta 386

<210> 19573

<211> 402

<212> DNA

<213> Glycine max

<400> 19573

ttcaagatat gtcattgctgt gagagtttaa gatgagatgt gatctcatat cggtttagata 60  
tatgccc aaa atactcctta tgttgactct ggaaatactt ccgtttcgaa ctaactttgt 120  
tattcagcac ttataccagg tgaaattcca gcaacatgga tgtctttgca atatatact 180  
aaaatactaa agttcgagaa ctgtgagatc catcattcag taaatgcaag aggaaaatta 240  
atgccacaat tctcgaagag aataccagac tttaacttca tggatgaaaa aggaatgacg 300  
tggttttgca gaagagaact tatagaccat atggaattgt ctgtgattga aaaaaactga 360  
gatgactgac atttaggaac cgtaggggat ttatactcat aa 402

<210> 19574

<211> 260

<212> DNA

<213> Glycine max

<400> 19574

ttcttcttta agagtttcat gcaggacaac ctgccactc tccaattatg caaatcgggg 60  
gatgcaacat ctgtggtggg gcccatgagt tatgtaagt catatcccaa cacgatgat 120  
ccaaagaatt caactacatg gctaattcat atcatcgagg gttccatcaa ggaggacctc 180  
tgcgatacaa tcaggagaaa acttttctta aggccaagg tggagatccc atcctgtgaa 240

<210> 19575  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 19575

tgtgacacca ggctacaaag ttataaaaac aagtaactat ggctaataga gtaactaaag 60  
 cttttgacaa taccaataac tatggctaac actaactatt tactttttaa caaaacaagc 120  
 catatatcct ggtcaagaaa acatatacta ggagtaattt tctttataaa tgattatgaa 180  
 aatgaattat cgcgatctcc atgttccct cctatccatc aaaaggaata agacaaggaa 240  
 ttttgttggt caaacaata tcaaaataac aatgtcaaaa caacaattat gtacaatgat 300  
 ttataattta gtccccacac catctataga aaaaattaaa caccttggac ctagtaatca 360  
 tgattaacag caaaactaac aaaaaatatt gtgatcctcc ccacttggtc ttaggccact 420  
 aag 423

<210> 19576  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19576

ttttgcaagc ttggagggtta tccatggatc ttgaagcatt tttcctttgt gtgtccatgg 60  
 atgttgcaat gagagcaaaa cggtttatcc ttgcgagtag gttttccctt ggcatgtgat 120  
 tgggttacia cacaagccat ttcagcagga ggagcataat tgggttgaac accaacaagc 180  
 ctatgagttt catcttgaag aaataatgag aaggtatcat caatattcgg agtcggtttc 240  
 atcaacaata tttgacctca agcatgggca aaactctctt tgacccccat cagaaatgac 300  
 atgacaaatt ccnctttgat ggaagcaaga agtggagcaa ccctgccaca attacaaacta 360  
 tgattggcct tgagttcacc cagcttagcc ca 392

<210> 19577  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 19577

gttacagaat tgagtcactc tntattgaga ggggtttag caacaatata agatttctca 60  
cagagatatc ttggcttgag ttactctcac ttggaaggct tcaatttaac ttcataatgc 120  
tccttggttg ccttttaaaa ctctaaagaa tatcgttgaa gtggatccca ctcaagcgac 180  
aaattttttg aggaagcaaa caaaaatgat agttgtcatg tcatgggagc tagcaaggtc 240  
attctgaggg aactttctga tgaacattct ggacttaaat cagaatggag attctaattgt 300  
tagcttatga aggattcata ctgaagtaga tccttttgat gaagttcaac agatgtatat 360  
ctttctgaag tagctcagct tcatcaacct taacacacct tcataacaca nagtattcta 420  
a 421

<210> 19578  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 19578  
agctttatgt gacctcact tgctgcaaat gaaaagggtg gaccccatgt ttttaagacg 60  
attgatctca tagaacaact tgagaagttt gggaaagagt tttctcaaga tttgattcta 120  
caatcacttt ctaattcatt ttcacaattt agtgtgaatt tcaacatgaa taagatgagt 180  
tgtgacttgc atgagatgct aaatttgcta attgattatg agaatcaaatt tgcttctgag 240  
gataagaaag aaactatcat ggtagttggc aagagctccc agaagaaagg aaaaagtacc 300  
aaaaaggaag catcat 316

<210> 19579  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19579

tacaaatcta ttntaagtcc aagcccataa ataaaataaa ttctggacaa gataagataa 60  
gattggatga aataaaatct agataagata agataagatt ggatgaaata aaatctagat 120  
aaaataaaat atggataaga taagatttga taaaagaaaa ttgtttgctc tcttcaagtc 180

caagcccaat tccggattca agcccaattg cttataattc tcctgaaatt aaattaaaaa 240  
 cacaaaatta gtcaagtaag cccaaatgat aaaattgcat aattaatttg acaattaagg 300  
 ctaatcagta attaaaatgg tgacaaaaag ggttaagaaa taggagaaaa taatgacaca 360  
 tcagtggata tcatgtttta tgggtaaacc catatagata caacaaatga gaagaaaaat 420

<210> 19580  
 <211> 576  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19580

gagtcgccg cgtgagacgt cgaaagngac angtgtatat aatatttaga tggttagcca 60  
 acactctcat agatgtatgg tgatataaaa gatgtcggac gcctatgtcg ataccgtaca 120  
 tactcacnnn nttcggtact cgggtgcatcc tgtatagtct acatgcaagc atgcaggcta 180  
 ttactttatg atgagtgtga cttaaaaaaa gacacgggtg agcttagcca aacattaact 240  
 atgccatgat aattaaataa gtactctaata cacaggacat tatgaattaa ggatagaaaa 300  
 cgaggtagaa caattaatga tatcaaacag ggaggacacc agactgaacg cgggggatga 360  
 gtgatttgag ggaccaatat ggacaatgat tggattggac ggtttgcaca gataatctcg 420  
 gagatcgcag taatctttat gcatcaccca tttatattgc tataagacac gctgcgagaa 480  
 tggttgggaa taaaggggga aaaattaggt gaatatgccg tgacgagcat taacctctta 540  
 gaagagagat atctgaccaa ctaattatga gcctcg 576

<210> 19581  
 <211> 341  
 <212> DNA  
 <213> Glycine max  
 <400> 19581

cttatattat gatggatggt gtgactggga tcttatgaat ttttctgatg cgttttgtat 60  
 acttgtctta ttgaacttaa ttgtgaattt gggaattgac tctgaagtgt taattaatac 120  
 actaattagc aaccatccat agagacgttc cctcatgttc cattcatgca tcatatttat 180  
 agtagtcttt aaccggtgaa gctcatctta tttcgacgaa tgtaaatttc tcaagacata 240

tattacgtgg ccacaatcgt agggaccgtg ctttggacac aatgggctcg catatgggat 300  
ctagatggag ttgctatatg catccattct tatgtgtgca a 341

<210> 19582  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 19582

ccagacatat atagctttct cgataatctt gcagattaca taacaaattt aacgtatcat 60  
gtgtcatgta ttgagttttc tttaaaggaa gacctaagca tgttcaatct aatgttcctt 120  
tatatatata tatatatata tatatatata tatatatata tatatatata tatatatata 180  
tatatatata tatatatata tatatatattag agactctatt attacacatt atttatttat 240  
ttcttacaat atgaacaccc cttatattca aataaaacat cttaaaaatc tctctaattg 300  
tgtctcatta cagagcttaa atcctctcat gttaagataa aatatcacta tatttctcca 360  
tagtataacc agtacg 376

<210> 19583  
<211> 492  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19583

tgtggagcgc tttgatacat gcatgacgcg ctcttanaac actcaagctt ggctttaaaa 60  
atacaacttt tgtagcacta ctctatTTTT tagcattatt tctgaactga taaatcactt 120  
ttaaatttat ttgaaacctt ctatatataa ctagaaatca aattgagtgt aaattcaagt 180  
ttctttaaaa tggaaaactt atttttatgc attatcaaac ttaaagttaa acaaatgaca 240  
agaaagaaag aatgttactc acaaacattt ttatattagc tcattcttta attttgggtct 300  
acatccaatc cttatcttta tcttttagtag aatttttact agatgacaca cactaaccaa 360  
cacacacaaa tatatatata tatatatata tatatatata tatatatata tatatatata 420  
tatatatata tatatagttg aggcgcgact atatatgcat attggtgaga ttcactaact 480  
aattaactaa tt 492

<210> 19584  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 19584

agcttgctct ctttccctta caagagtgac aaggcagtcc catggaagta tgccccctcaa 60  
 aagcttgacg gaaggaagga tgagtctgtc agagaagacc tatcctctgc caaagttatt 120  
 aacatctcta gcacaaatgg tatgaccogt aacggacaaa tctttgtagc gcccagagctt 180  
 ctgatgagag ataaagaccc aaaggggaag gcgaaagtgg gcacgaaata gagcgacaag 240  
 gcaagccgta ttctggatga ggaggtcccg gccgggaggt ttgctaaggg agaggaagac 300  
 ttccggcagaa aaataatatc cgtagaagaa acaaatgtgt tccttcagat catccagtaa 360  
 agcgagttca aggtaatcga gcaactcaat aaaacccca 399

<210> 19585  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 19585

tgagctcatt gttgctaccc caciaagctc ctccgaattt atctcggcta tgttcctcct 60  
 tgccgggccct tttggttttt tgttcaaggg ctcttgtagt ggccgtgttt tctctcgtta 120  
 actcgggtgca ctctttccgg atgtttgtag cggttgactt gaacttttct ttggcgagtc 180  
 ttgccttccc tagctctaata tttagagctt ggacttcttc atcttctctc ggagcttoga 240  
 agttctcttc attgataact ttcaacttgg agagccaatc taaccctcgc gtatgaactc 300  
 ttagecatcc atgataacca ccgatgacgc cattacggat gccctgagc tcgttggtctt 360  
 tcttcaacgg acttctccac gccttggtga ttctttgtat aaccttgaga ctttgcggtgc 420  
 cgaaatctct cacaaggaa 439

<210> 19586  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19586

agcttgtaag tatttgttgg tataatttgc ctgttccatt aggtttttaa tgtctctaga 60  
 gggtacttcc tcgttgacat cttttgtctt gaatggaatt gccatgacag gtttgttgtt 120  
 actgtctttg atatttggtg gttgatattg tgttgtggga ggtaattccg actggattaa 180  
 ctcaccatcc ttcacttgcc aatttgttat gacatttgtt gttggattac ctatgatgtc 240  
 ttgtttccaa gggtagtcta tatectttct gatggcataa gcatganacc aatcaaagaa 300  
 aaggacatta attntgactc ttctgacaaa ttctgagaac ttgtcttga tttgttttct 360  
 gtttgtaccc ttgtaat 377

<210> 19587  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <400> 19587

tgacgggtgtg ggattttccc tgtactctac tacgggtcaat attccttggc acccttaatc 60  
 atgttcaatt tgttggtgtaag tctatgtctt ttaatccaaa aaaggaaact tggttaccat 120  
 gtgagagtca tttggatcaa tgacaataga tttggatgtt atatgcatga gtatttcaat 180  
 gcttgcacta ctacaaaagt gtgtttttta tgacacgcgt tctacttttg taattatgtg 240  
 tctgaaaaat ccttttatga tgcacattct aagacggata ttgaagaccg ccttataatg 300  
 tgtgctcctc ataaaaaatt atgacgggtt ttattacaat ccgacagtat ctcaattgaa 360  
 ttcaaaaagcc caattaatac gagtccacgt gcatgcagca aattaacttc agcgacctct 420  
 c 421

<210> 19588  
 <211> 268  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19588

tatcttctca aggaggtgag cttangtatg agaggggcgt gtgtagctaa acactagctt 60  
 ctcaaggaag atttctcaaa gaagcttctc aaggaagttt tctcaagaaa gcttctcaag 120  
 gaagctacct agtctataaa tagaagcatg tgtaacactt cgtgtaactt tgatgaatga 180  
 gagtcttggg agacacaact caaagttcaa attctctacc ttcttcttcc ttcaatgtcg 240

tgctccaccc tctctctttc tctccctc

268

<210> 19589  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 19589

tggtgcaaadc aagtcactcc cgcattttat ctctagcatg cattgtatgt tgggtctcgtc 60  
ctttggcagc ggaagccgga aggtccatat caccttctta attgtacaca tggggcactg 120  
cgcccccaaa tgcacaagta agaagagata attttccggg ctctcgtgtc cgtaaaatgc 180  
attcatatca tgcacgcgat aagcatctct tcataacatc ataatggaca taccctgcat 240  
ttgtccgtta tcatattcca gcctcacatt ttgcatgagt catggcatca tcatgcatat 300  
gcgttcaaca aactttttga tctgcaaaat tgcataccat ttgttttcat gtttgctcat 360  
ccttgcgttt tctctacaa aacaaaaaca aagaaggggg aagcgtgaaa cttcacacta 420  
cattcttagt tt 432

<210> 19590  
<211> 286  
<212> DNA  
<213> Glycine max

<400> 19590

tagcttctgg agggagcctc ttaatgaagc ttctagagaa aactacatga agctgcctcg 60  
gcacaaacgc tccccagcct tcgttaaccg ttggatcttt tcgaaatatg gtttgcaact 120  
tctcaagaca attttccatg atctcacctg tgggatcttt gagaagatat ctggagtgtg 180  
ctagaagctt ccgttccga gagcatctct tatttaagca tttcagcctt tgctttcgtg 240  
tagcttaaga aaaacgtcat ttcttcttct ttctttcttc caaagc 286

<210> 19591  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19591



tctcaaggag gtgagcttag ttatgagagg ggtgtgtgta tctaagctct agctttctcaa 60  
 ggaagttttc tcaaagaagc ttctcaagga agttttctca agaaagcttc tcaaggaagc 120  
 tacctagtct ataaatagaa gcatgtgtaa cacttggtgt aactttgatg aatgagagtc 180  
 ttgtgagaca caactcanag ttcaacttct ttcccttttt cttccttcaa tttcgtgctc 240  
 cccctccctc tttctctccc tctttctttt cctccattga agcatcctct ccaagcttct 300  
 tatccaaggc tcatcttggt ggtgaagctc cttcttccat ggcttattcc ttaatggatg 360  
 gcgcctnctc tcacctc 377

<210> 19592  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19592

ttgcttttat cttacaccac caccgccgcc atcatcttag aattatattt taatattatt 60  
 attactactt tgattttcag ccttgattt tggttatatt attatggat ttgaacaatt 120  
 tactatttcc ttatttgcac ggtatgttg gaccaatatt aagtatgtta tttgactatg 180  
 tgaagtttat aattaatcta ttcatgggtg cttgcttcat ggttttcatg gttcttgctt 240  
 cttgcttcat gatttggttg atattttttc atgaacattg tatgaatgtt tagttatatt 300  
 ntaatacgca ctttcgcttt ttgttgatgc caaaggggga gagaaatggg attaaatcaa 360  
 gaactcacat gagtaattaa ttt 383

<210> 19593  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19593

cgctaatta acctgaaatt gagagataat gattattatt cacacaaaat gaaaatactt 60  
 agtattttatt acctatactt aacagaaaat acttatatca ctacaaaata accataaatt 120  
 gggagagttt gatacaattt acacaagttt tatacacaaa agttagtcgt tttcaccaac 180  
 taccatgtct ctaacaactt atgcaattca gattcctaatt cttgagtcaa cttgtgatcc 240

tccgccgata tctcattata gcaaactagt ccttgcaatg ctatgaagat ggcttggtaa 300  
 tgagctagtt ttaatttacc ttccaattct atgatgttct ctgaaatttg ttcaccttgt 360  
 aagcagacca gttntccttg atgttgaaac ttcattgtca gctgagcaca attccagttg 420  
 atgtcaccta 430

<210> 19594  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 19594

tgctttcaac tgaatttaca acgttctaata taatttcaaa atggtgtaac cgattacaat 60  
 atattggtaa tgcattacca gtgtgtttga acgttgaaat tcaaattcaa ttgtgaagag 120  
 tcacatcctt tcacaaaaat gttttgtgta aacgattaca atgatttggg aatcgattac 180  
 cagtataag ttttgaacaa aaatcaaaag atgtaactct tccaatgggt ttcaagtttt 240  
 tctaaagggt ataactcttc taatggcttt cttgaccaga catgaagagt ttataaaagc 300  
 aagtccttaa cttgcatttt taagaagaac aatcattaca atcctttaca atctttgaat 360  
 ctctttgaac atcttc 376

<210> 19595  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 19595

tgcacttgag gaggaagga tatttgtagc taatgaacat ctttcttaac tattegtcct 60  
 taagatttta ctgattcttt ttgctaatat gtaaataata atggtataag ggtattgtca 120  
 taccctaatt tcgtccgggg attattattt gatgatatac aacctttgat tggccgcttc 180  
 gagatacttg gcaccctttg ttgcacaata tgtgaagtcc cgagacgtgc cgaatatcaa 240  
 aaggaagcag gcttacgcga tccgtgaaaa ttccgtaatg tgacgaaaat cgaaggagg 300  
 tgtttttcgc aatccgcgag ttttcataac ttcttcgaaa gctaaaaaag agtaaataca 360  
 taatccgtac ggattcgtaa ccttgccgga ggaaaataac tatcggtact aaatt 415

<210> 19596

<211> 396  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19596  
  
 tagcttataa gaacaaaatt gcctcaatca tttccaaata tgcattgtgaa ttaggaagca 60  
 tcaacaagaa tcaagccaag gctattgtgc aagcaatcaa tggggcataa cacaccaaat 120  
 gattatgatg atggatggct caaatttctca caaaggtaaa ctcatcactt tcaaattgag 180  
 ctttcaaaac tatcatgaca tgtagaggag aatcaaggat ttcaagtcac aaaatgtcaa 240  
 gaacatttta ttttcaaaac aattacccat ttcttgaaca tctctataa ttcanagaaa 300  
 aacatgcaaa gtcgtacatg cacacagaat tgacccaaaa tattaaacta gaaatccgac 360  
 gaaactaaca acatcaacaa attaacacaa ctaaca 396

<210> 19597  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19597  
  
 tcagaaccac ttcagaataa agcatttggc attcccagac cacctgggtcc tacaagatct 60  
 gttagcatgg acctctccaa ggcaccactg gaatcagctt catctgttga tctttttcag 120  
 ttaccagcag caccatctca agtccaaca ttggatttgt ttcaatcatc tctttcatcg 180  
 gcagatccat ctttcaacga gaatcaactt agtcaaacat cccatcttgc atctattgat 240  
 tttttttccg atttttctcc gcagccttct actgtaacct cagatgggaa ggcactggaa 300  
 ttatctgtcc ctaaaaatga aggatgggca acttttgata tgcctcagag aacctcctct 360  
 actgcacaag tggaaattcc aaccactgta ccttcaaag cttaaattctt a 411

<210> 19598  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19598  
  
 cctgtagaca cgacactgca tgctctgcag cttggagcag cttctaacga ctgtttcata 60  
 atactcctat gtgctatcag atcgatact ctattgagac gctagcaaga gtacactggt 120

gctaccacac agagctcagc gaaataaaact atagccatac tgtcccatgg gagccctctt 180  
 ggactctaga tcaagggtc tggcggaat ggcattcact tatcgtaacc agagacactc 240  
 ctttcga 247

<210> 19599  
 <211> 153  
 <212> DNA  
 <213> Glycine max

<400> 19599

tccattatca atttctagt tctcgatata ttacaggtct ctagcggaca tgcaagtgac 60  
 atgatattgt cgttgaatt tgctcataga ttctcgattc agttgtgagc gtcacgatat 120  
 actactggac acacctcgga catctgatta tat 153

<210> 19600  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19600

agcttgcaga gaaaagcagc atggttgtga tctgtggtgg gatcaacaac aaattagctc 60  
 agttgttgca caacatatgt aatgtctggc cttgtgttgg tcaaatagat caacctccct 120  
 attaattctcc tataagagga aacatcttct gctgaaatag gtgaccctga gtgttgatgc 180  
 ttggtggtgt aatcacaagg ttagaaaact ggcttagaac caagcatgtc aacattattg 240  
 agaatgtcca gtgcatactt tctttgatat agatttatac caatagagct tctagctacc 300  
 tcaaacccca gaaagtacct aaagtctcct aagtccttaa ttttgaaagc attgtcaagt 360  
 agatntgtaa ttctttgaat ttta 384

<210> 19601  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19601

ntgtcctttg gaagggtgtga tgttntatta gggacttctg aagggttttg aaagcttgaa 60

aacgtagtga gtttagtctg ttttcgttcc atcaatgaag tatcacgcct aagatgggaa 120  
 gttgttgcag gagcacgggt ttcaccacct gaagtaccag ctgcgaccat agccaatgcc 180  
 attgaagcag gtggagatgc aaaagcagca gccagggctg gagatatcat agcatgggag 240  
 gcctgaaaga aatatcagtt aacagaagta gcataacgga acagaaaata aaaatgacta 300  
 tgctgataca atgaactagg acaaccatt cccattagaa tataaatact tttagaaaca 360  
 ctattcattc aagtcaaatt acatatttgc ccacattctc ttgttattta tcaagctaaa 420

<210> 19602  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 19602

agcttcttct ggaccttgaa caggcaacta actcctcttt caaaaccacg ctatgtgctc 60  
 gcgactgggc cctctcttcc cttcgcagct tgagttcatt gttgctaccc cacagagctc 120  
 cgcgaaattt atttcggcca tactcttctc tgcgagccct cttgggtctct tgttcaaggg 180  
 ctcttgcggg agtggcattc tcttctcgta acccggcaca ctcttccga atgtgtgtag 240  
 cggccaactt gaacttctcc ttggcaagtt tcgccttctc taactcgctt ttgagagctt 300  
 ggacttcttc gtcctcttcc ggtgcttcaa aactttcttc gctgacgact tttaact 357

<210> 19603  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 19603

tgcattgcat tgcattccctt aaaatcatgt taactgcata gattttctac atctaataac 60  
 cagtcgtgct gatttgggat gactgacctt ctcgatgagt cgatctcttg ctttctcata 120  
 aggggtgaacc cttgggtact agtacctca cctccagagg actacatgct ctcgccttca 180  
 gagggccaca cgccctcgcc ttcaaaggac ttcacgtcct caccttcaga ggactacacg 240  
 tcctcgctt caaagggtca tgtacctta acttcagagg actacacgct ctcgccatca 300  
 aagggtcatg taccttcacc tttgtagggc aacacgccct caccttcaga ggactacacg 360  
 tcctcgctt tagagggccg cacacctcg ctttcagagg actacacgct ctcacctca 420

gaggactaca cgtcctcgcc ttca

444

<210> 19604  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19604

agcttgcccc aagttgttga tctcatttca gatttaattct gttcttttact tgcaaatatt 60  
ttgattgtag aatgttaagt ctttttaata gaattaactt gtctgggtta taggtgtgga 120  
tcttgcaggg agaagagaga aagcgggtga aaacaaaaga ggcagagggga agtgaagaag 180  
actttggagt ttgctgagaa atggaaataa aagtggggct ggggtggcat ggtcatactt 240  
tagtgtcacg ttagatagtc tacatggcac taaaattacc aacaatgcac ctactaatg 300  
gtgttacttt aaaatntaac agaatgacta ttttacaaaa cttatgcaaa gatagagact 360  
attctttaca tttcanagaa ataggggacta atgtacaaaa 400

<210> 19605  
<211> 445  
<212> DNA  
<213> Glycine max

<400> 19605

tccctgcaca aatttaatta ttaaataataa agaaccaatg cacaagtatg ctagacaatc 60  
caaataattg ccaccactta aacctcccaa ttattcttca atttataatt ataaccaaca 120  
tacagtataa atatgatgat taataaatTT ctatgtagta ttttatgact taaaaagata 180  
attttaatga gatattagaa aaagttctat tgctaattta aggtattttt aaagaactaa 240  
ggagctagga atcattagta gtggacccta agctaaggggt gtattagact aagtgtagt 300  
gtgtataagc aagaataata taaatacatg gtaaggcaca ttgttagcaa acctaaccga 360  
taagtgttaa ttatctgccc tcaaccactc actcttaaca ttgtgacaaa gcattgcatt 420  
taaaccaatt tctcattaaa aaaca 445

<210> 19606  
<211> 383  
<212> DNA

<213> Glycine max

<400> 19606

agcttgttct tgaccttttc catgagatgg taagataata agattgaagt tgatacaaca 60  
atcgtctact ttaaagcaaa tatgcactta acctttcgtg acttataaat aaagatgata 120  
attagacatg tgagttacac tttatttaac ttttcaàgat ttaaataatca tgtgtcaaac 180  
aaaattcaaa ttcaaatgat taatataaat ggaaaaaaaa taattgtata attgattcat 240  
aaatagtata gattatgttc aagattaaaa tattttattgg acatctctct ctatatataa 300  
acttaagaat ccataaacac gttctgataa cacatggtga cacacgataa tttttcaaag 360  
ttcggatgcc acgaatactt aat 383

<210> 19607

<211> 435

<212> DNA

<213> Glycine max

<400> 19607

taactaccta tctcccaaat gcctttgcca agatttaata attaatttgc atcaatgtta 60  
aattctagat gttgctaaat gcgtgggcat tgagttatca ttctatgcct agcaatgcta 120  
accgatgat cattttctta agatgttcta ttaggtgtta ccttttccca agcatataac 180  
ccctaaaact catgcatgtt aattcttaaa tccttactag gaattaccct caccgagcg 240  
aataaaacc aaaattaatg taaggcataa atgcaagata agaagaaaag ttttagaaca 300  
tgatacccta gaatgaatcc tctttgcatt gataactctt gaagtacacc atacatcgtt 360  
ggctttttta gtttttcagg ccctagctag gggattagcc actcatggcc attgagggct 420  
ctacaaatgg gggtg 435

<210> 19608

<211> 393

<212> DNA

<213> Glycine max

<400> 19608

agcttatgcc aataggagat gatcaatgat aatgcctaca aaattgattt gtcgggtgag 60  
tatggtataa gtcatacttt taatatggct gatctatctc tttttgatgt aggtgatgat 120

ttacttgatt tgagggcaaa tgtttttcaa gaaggaagga atgatgagga tatcaaagac 180  
 caggccgaag ccagaagga agcccaatac ctaacacaag gcataggagg gcttgagaca 240  
 agagcaaaag ctaaaaagac ccaagatact ttgcaacata taatggctaa tctgaggaca 300  
 atctaattgc atgagggggac ccaatatcta gaggcctaaa cctcaagctt aattatgtct 360  
 cacttaaata ctaatgcatt tcagttatgc tta 393

<210> 19609  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 19609

tctcttttct tgtttaatga ttatattttg cttctaatec ttgtatttgg gtatgttctt 60  
 atgacatttg aatacttagt atttctttta ttattcgatt agtatgattg aacatgatga 120  
 ttatatttac ttgctcttgg ttgtttatgg ttatgagttt taaactcaat tattttgatg 180  
 atatatgatt agtggtatgt acttttattt ggctattatg aatgactttc tggattatat 240  
 gacattctat gaagtattat atttctagtg tgatgaatgg ttatgtttga ttgttttcta 300  
 ttctcgtgta tttggctata ttattatggt atttgaacaa tttactattt ccttatttgc 360  
 atgggtatggt tgaacaagta tgttatttga ttatatggat ttcatagtta ataataaact 420  
 aaaattcacg tagaattac 439

<210> 19610  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 19610

agcttgatgag cttaagttaa aaaaaagatg ttgaagaagt tgacttgact atcaagtaca 60  
 agaaaagctt ttggtctagt gataagcaat tgattccaag tgtttcacca ataaatgaca 120  
 agagtttcat aagtccaatt tcatgatcaa gtaaaaggct tacagttttc ccatttgtgg 180  
 taatgatggt gacatttttg ccattgattt gtgtcacctc tccatcaatc catgcacact 240  
 caggatcctc aacccaaacc tgtgatccaa cgatgatgtt cacaggtgtt ccctgaacca 300  
 atcacaacaa ggcaagaaaa agtggttactg ttaacacatg atctgacagc aaataagtgg 360



<210> 19611  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19611

tctaattgtg actcatgtat tgtcaataag tacaatatgt aagaagcaat atgaagaata 60  
 aaacatggag catggaaact gcattgttgc ctaaacaagt agcaaaaata taacacctca 120  
 tctttgagaa gtgcttactg ttttctcttc ctcagtgcg agaaacttcc cctctgcaa 180  
 atcacaggct gcaattggta ttgctagctg cttctgcaat ttctttacaa caaacacttc 240  
 tgactcttca catatgggta ccaactgtacc attcctacct agccgaccag ttcggccagc 300  
 tcggtgtgca tagtgaattg aatctgtcgg taagtctaga ttaaccacaa gatcacattc 360  
 tgccacatcc aaaccccttg ctgataattc atttgaacc agaactctca cctcaccatt 420  
 cttgaatntc ttcagagt 438

<210> 19612  
 <211> 195  
 <212> DNA  
 <213> Glycine max  
 <400> 19612

ctacagtgcg cgctgtgcgc acgcattctt gttcctgaac gccgtacact gtacgccatg 60  
 actagcacac tatgtgctgt cagacgagga cactgtttgt aacttgcata tctagagtat 120  
 gttgaggcct ctcacacata gcttgtcaaa atttgatat aggatactcg cacttgcaag 180  
 cgatatgcgt ctatt 195

<210> 19613  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19613

agcctgcatg acttcggcgc tctaggtact tctttacatt gctatatctt aatataatat 60

gacatactag aataaccctt tgcatacggg atgacctact acttgattgc ggtgaatgca 120  
 taagaatgat ttattattta ctccaagagc atgcatttaa atttcttaat gtgcacattc 180  
 tttttgaatc aatagtgaca cgatgagaac ancattattg tctaacggaa tatattggag 240  
 gatatgatga caaccaatc acatacttga atttacagct accaagcctg tggtaaataa 300  
 catatatatt atctctcaa cacacgatat attgtaattg acttcacaat aaccttttgt 360  
 agctggcaag aatccgcact tccagaagta aatac 395

<210> 19614  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19614

tgcttggcac aatgttgata acaagacaaa cttcaattgc ttcattctgg taacaacttt 60  
 attttcatcg aaatgatttt tttttgcatg aaaaggtctt aaatgggaaa aaattaattg 120  
 tcatgagaaa taacttttca gaaaatatat gtacgactaa tcttgtagaa tattgtccaa 180  
 aaatgttccc agattattat aaagtgatat gataatattt agaaattgtc gtgtgagaat 240  
 acagttgtaa gacaacaaag gaacaataac tatgaaaaat agattcttgt aatttgtttg 300  
 gcttgagaan aatatgacat attatt 326

<210> 19615  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 19615

tatcacataa atagcttcac taacattaat tgtgattcta ttttattctt tattacatat 60  
 tatataaatt aatgtgtatt taaatggtaa ttaaattgtt ttatcaattg taattacatg 120  
 gagataaagg aagccatttc aaattaaaaa atttgaaatg atatgttttg tttttaatga 180  
 gtaaacaatt aatgaatttg attttcacat atcttcta at tactata aatagagaac 240  
 caattcatat aacttattat catttctttg tattcatcta gtcgattttg acacattgac 300  
 atatgatgac aagtgtgaaga tcatattcta aagaaaaaat tacacaaaat tgtacttata 360  
 tgtcaatcct ggatctataa ggattttttta tataatgaat ttaattctttt attcttaatt 420

actataatca ta

432

<210> 19616  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 19616

agcttgccgc ccaactcgcc caggcgagca aggttgcttc ctccagaagc aacaaccttc 60  
tggaggaatc ttctggaggg cccaagtggg cctgggttgc atttacaccc cccgtttact 120  
aaatgcaccc cctttctatt tttttgtaat tctttttccg taatgttacg aaactttacg 180  
aatttcgtaa cgatacctat tttccttcg caaggttacg aatccttacg gattatttat 240  
ttactctttt ttagctttcg aagaagttac gaaaactcac ggattgcgca aaaacacgtc 300  
ttttcgattt ccgccacatt acggaatctc acgaatcacg caagcctgct tcttttcaat 360  
ttctgagacg tctcaagact taatttattg cacgt 395

<210> 19617  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 19617

tgatcaaaac aattatctaa tcattcctat ccaactcaatt catacaattg ctcatcctaaa 60  
taattatcaa acactcattt cataccaaac aatccattgc atatcatttt caatcaattc 120  
attgttcaaa cacgcttttg gtacaagcaa acaactcaaa gtgctgaaat ttaaaataac 180  
taaaatataa agcaaactaa atactaataa actaaaatgt tcattgctttg cagaaattaa 240  
actaaacaca atttaaacad cctgctcatc ttgtggctga tcttcattat gatctagtgt 300  
tggagctgct gatgaatcct ggataggctg ctctggctcc gtgactgggtg tagatggctg 360  
ggctctctca agaactgggtg caagagatgg cttaagtatt tgatctatgg aagtcctctc 420  
ctctgag 428

<210> 19618  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 19618

agcttggttg agaagcttct atggagactg gatctttgag cttcactaag gtcctttaat 60  
ggtgattttc aaccatggag ttgcagtgga agataaagga gaaatgggga gaggaggcgc 120  
catacactag ggaataagcc ttggaagatg aagggttcacc accaagagag tgtcttggat 180  
aagaatctta gagaggaagc ttcaatggag gaagagaatg agaaagagag agagagagag 240  
agagagagag aaagtggcat gtaaaattga agaaagaaag gtagagaatt tgaactttga 300  
agtgtgtctt acaagattct cattcatcag agttgtgaca agtgttacac atgtttctat 360  
ttatagccta gccaatgact aaatgaaatt ttattttt 397

<210> 19619

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19619

agaagaagtt ntgaataagt tttggctttt acatgcctaa ctcccttgag tgacatttgt 60  
attggttggtt atcttggttg ttgcatctta gtacatttga tatttggttt gcattgtgca 120  
tcatcatagt gtgtgtgaag aaaagtttct aagttataaa aattacttta gaggcaaaaa 180  
ctctttattt taattgatta caacctcatt gtaattgatt acaacaagct attaaagctt 240  
gtagagttaa gtatcgtatc ggtttaatcg attaccgata tctcataatc tattacacta 300  
ttgtttgaga caatgactga tttatttagg agtctttgct ttaatcgatt accaagtgga 360  
ttaatcaatt acttctatct cgttcaagtg ttctggggtg aacaagaaca ctttaatcaa 420  
ttactt 426

<210> 19620

<211> 394

<212> DNA

<213> Glycine max

<400> 19620

agcttttatg ttgttattgc aggcaatatc acaaatagaa acagtttatg ctttcgttgg 60  
agagagctct gcaaccaaatt cttttataga gaacatggaa aaacaatatc ttataagcaa 120

aggggaggca cttgtgaagg gagttaggat agggatatag caaacagaga gtttctattc 180  
 tttggctctc attgtatggg ttggagttgt tgtgggttaga gccgaaagag caaccccata 240  
 agacataatg actgtcgtga tgagtattct ctttgggtgcc atgtaaggaa gaaatcacct 300  
 tcaggattgt ttagaatgga gaaaatgggt aataattaat aactaagtaa caatagtctc 360  
 cttgtgaatt gcatatctct cacttacgca tcac 394

<210> 19621  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19621

tatgaaaaac attatTTTTT ttttatcata tttctagtta tgcttgcagt taatcttagt 60  
 tgtgcccgcga nangaaaacc nctgccgaca ttgactaatg tcacgcctcg gtttcctatg 120  
 agcaactcga cgatgtcctg gggggatcct ctcttctctc ttctccacat gtccccgcct 180  
 attgcaagta ccccggcgtt cctagtgggtg tctgccaaca ttcagctcat ttactccttg 240  
 agccttgctc cgccctatg cctcagtatg cctggcgggcg atggcgcccc acggagcatc 300  
 ttgtgcgata cgtggccttg 320

<210> 19622  
 <211> 270  
 <212> DNA  
 <213> Glycine max

<400> 19622

agcttggttct tggagtcctt cttcttgagc aaggcttaca cactcacttt attcattttc 60  
 aagtgttca atccataagt atcagcagtt ctacctttaa tcttgtggat catgcttggt 120  
 ggggatgttc ttccgtcttg ttgggtggag gaaaactcaa attctgcac ttctatatct 180  
 aacactcaaa attagtgaat gtccattgtt tacatgttga tggtgaggg aatttcattt 240  
 gttatattag tggtgcctat ctctgccatg 270

<210> 19623  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 19623

tgccacccag ctgcccagg cgagcagggt tgcttctctt agaagcaaca gccttctgga 60

gggcccgaagt gggcctgggt gctatttgca cccccatttt tactaagtac acccccctgc 120

cttttttttg gtgattcttt ttcgcaaagt tatggaaact tacgaatttc gtaacgatac 180

ttgttttctt tccgtaatgt tacggaacct tgcggtattac ataatcatcc cttttttgac 240

ttacggaatg ttacggaacc tctaatttg tgcaacgatg cttccatttg atttccgggtg 300

tgtcacggaa ccttacggat tgtgcatcaa tattttcttt tgttttccgg catgtcccgg 360

aatttcacaa attgcctaatt gatgggttcc aagcacctca caaggaccaa aaaaaagttg 420

c 421

<210> 19624

<211> 395

<212> DNA

<213> Glycine max

<400> 19624

tgtcttgcatt gcttttataa ccatgttttt ttttaataatt taaacagttt ttttataatt 60

taaattgtat ttaaaaaata tgtttataaa ttttaattttt tctaaaatat taaaataata 120

aaaaatttat tatatttttt agatattaat ttttttataa ttaaattttac aataagaaaa 180

aaattagata tattttttcag atataattct taataattaa ttttatgata attatttgag 240

taatttaata atatgaaaat ttattttatt taaacaatat attataatta attaatttaa 300

attgagtagt attgcggaaa ttcttttggt attagtcaat cataagtaat cctacaatta 360

aatatttaatt tctaattatt ctcaatcatt tataa 395

<210> 19625

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19625

ntaatcactt gagnttggtt tggaattaat ttttgattta aatttaata cattaataagt 60

tttttttaatt tcttttttaa tgatatattt tatgtgaatt gaactcatgt ttttcaattc 120

cacaaaatat	atgaattaac	ttatttgata	ttattctagt	tcaattgaat	gatttcaa	180
ctttgcactt	tctgtgtata	aaagaatctt	tgcaactttac	gtacattata	attaaattca	240
tgtaattat	ccacttggtc	aagagagagg	cagaaaggcg	tgatgccatt	aacaagtgg	300
agtggatatg	ggaactgtgg	tgtactctct	tcaagtcttt	tgtgcgatat	atgacaatga	360
aacaaatcaa	tcaatggtat	agtaatagca	atgtttattt	tat		403

<210>	19626
<211>	394
<212>	DNA
<213>	Glycine max

agcacgga	gtccggtggt	agctgtcttg	gcagatttat	ttgacacatt	taaccgaagg	60
tgcaaaaaga	gtagcgcacg	gatcatctgt	tgcttgcccg	ccctctgtgt	ttggttggtt	120
tcacacctgt	tccagcaaga	cacgagtcac	ctatgtccgc	tccagagcca	tcgctcgtgt	180
actgaaaaga	gaagaataga	ttgggaccgg	cttttggtg	ggataggagg	tagaacaatc	240
aattggttcc	cccgatggaa	ggaaggaaag	gagggagtcc	ttttctcatg	tggaggggtac	300
ccaaacattc	cgctgatagg	aacgaggggt	tgtattaact	acaatcccg	gctcgctata	360
agacaactaa	ggtaccccat	gatgggagta	ccga			394

```
<223>      unsure at all n locations
<400>      19627
```

acccccatga caaanaacat gaaaa

445

<210> 19628  
<211> 305  
<212> DNA  
<213> Glycine max

<400> 19628

agcttgtact tgatcttggg ttaatgagct gaatcatagc taacattaac taatcataat 60  
tagagaaact ttcgctccaa aatttgcttc caaaaattca atttcaaatt caagtgaat 120  
ttgaatacaa attcagattt cctccaatt ttgtgtgaca cttacgctat aaatagacgc 180  
catgcgcgcg catatgttcg actgcgatca ttgaaaatt acacttcaaa tttctgacct 240  
tattttaagc actcattgcg cgtcgttcta ttctctgctt tattcaactt cttccacatc 300  
tacc 305

<210> 19629  
<211> 442  
<212> DNA  
<213> Glycine max

<400> 19629

aagctttaga attataacat aagaactgtg attattgaag aatctatcca tgttgttttt 60  
gatgaaattg accctatatg gccaagaaag gatacacttg atgatattgc tgatacatta 120  
gacgacatac acattgatga gaaagggcat agaggcaaag gaaatggtaa tgaataagac 180  
tgtcatattg atgaaaataa aaaaaataaa tatagatctt ccaacagagt ggagaacttc 240  
aagatatcat gctcttgata atatcattgg tgacatctca taaggggtaa caacttgaca 300  
ctctctcaaa gatgcgtgcg ataatatgac ttgggattcc ttaattgaac ctaaaaattt 360  
atatgaagcc ataattaatg aacactggat tattgctatg caagatcagt tatatcaatt 420  
tgaaagaaat aaagtctggg aa 442

<210> 19630  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 19630



agctttttat taattacact catactgttaa tcgattacta gaggagattg tcagaaaata 60  
 ttctcaacag tcacatattt tcagttgggt cttgaatggc catcaaaggc ctatatatat 120  
 gtgacttgag acacgaattt gaaaaaaaaga gttttcataa caaaaaggta ttatcttctt 180  
 aaaaagcaaa atcattttat cctctttcaa gagagatata ttcttctctt cttctttatt 240  
 aggaaaaggg attaatagac tgatgggtctc ttgttgccaa gaaatctgaa cacataggaa 300  
 gggttggcct tgtgtgggtg agatcttgta gcaggctgtc acaatatagt ggaactctca 360  
 atcaagttgt ttggggactg gacgt 385

<210> 19631  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 19631  
 gacagaatac atatggacag accttgaact ttgatttgtc tctcacaaca cgatcattca 60  
 tggaagttac accaagtgtt gcacatgctc ctatgaccag ctaggttgct tgcttgtcta 120  
 actgtcttga catcacttcc ttgataagct tctttaacaa aacttccttg agacactcga 180  
 gcttatctac tcacacgcct ctaataacta cactcacctt cttgcgaagc ttccttgta 240  
 tgattcatag tgaagcta 258

<210> 19632  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 19632  
 agcttctatt gctttattgg aaaatactaa ggatctgtca aagattacat tggcagaact 60  
 tgtaagtgt atgcagtcac aagagcagcc gaggttgatg agacaagacg gtgtagttga 120  
 aggtgcttta ccaaccaagc accatcatgc tgaatccagt agaaagaaat atgtcaagaa 180  
 gaaccagcaa acaagcagcg aaaattgtgc aaacaaccaa aacaaaggta agggtaaaaa 240  
 gaaaaattat ccaacttgcc agcattgcgg aaaattgggt caccacccat acaaattgtg 300  
 gaaacgacca gatgcaaagt gctgcaagt caatcagctt ggacacaaag ctataatttg 360  
 tagaagcaaa tttcagcagc atgaagtcga tgcccaagtt gttg 404

<210> 19633  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19633

ctcaagcttg ttagggtttc aagcaatggg actaggggtt caagctgtgg tgatagggtt 60  
 tttgaggaac cgtccaagaa gaggatgac ttttacgtca aagcaatagg aagggtcaaaa 120  
 taaaacctga cgaggatagc accactctcg atatagaggt tgagaaagaa aaaggacgtt 180  
 gaagaagagg tggatcccta caaaaagaag ttgttgtaa ataacattgc agtgcctttc 240  
 tctccttttg atggaagatg ttttgataag cctaacaaca aaatcccccc tgccaccttt 300  
 gtcgaaagaa gatagggaaa gattttacga ggtaagatt acaaagagg agttcagtga 360  
 ttgggtgtaa ccttggaagg gctcccttat ggtgatattg ttgggtaaga aaanttgctt 420  
 ttgtatgatg gagacaaagt tgaata 446

<210> 19634  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 19634

agcttaagtt atatcatata tattagtact ccttttatat tctaccatat ctgatagctc 60  
 actttgtaag aggaaatgag aacattttct cgaatcaca catagatcat tcatttatta 120  
 caatgtcccg tgaagcgact agagacagcc gcattgaaca ggaatacata gagcagcaga 180  
 gaataatgct tgaattttag tgaagccata catgctattg tcggaaaatt ctaccatata 240  
 tgacacacca ctgtctcagg acgtattgaa gacattttca tatagatgat tgatcatgca 300  
 tataataaac gtcagattga agattaaagg ccactctcaa cataatacta agctcaaacc 360  
 tccaatttct ccatcattga agca 384

<210> 19635  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 19635

cgctatgaac atcaggcatg atcttaccaa ttaattagtt gattgagtgg ctagtatgtg 60  
tcggtgttgc tgtcatccaa ggtatcatca ataattagat cgaatttgct ttataaaaa 120  
attactgcag ccaacaatat ccacgataaa aagaatagaa tggcctacaa tagtctcata 180  
catttatcaa gctacagcat ccagactaac ggttgcaatt tgcccttctt tatacaagtt 240  
attattaccc aaggacaatc tataacctca tcccacacat agcagtcgta tagtttgagc 300  
caaataggaa tttttagacg agacatggaa agggaatata catgttcacc aagcataagg 360  
atagtggtag agctgggata aaatttctgc tgttatttat taacaatccc taaaaagggg 420  
tgataacttat aaacaaag 438

<210> 19636

<211> 250

<212> DNA

<213> Glycine max

<400> 19636

cgctttcttt tatatgtgca attaatagaa aggtatccta tagtagtcgt ggacgtacgc 60  
acatacattg tgtgtcgatc cacattaaaa catgcgactc tctctcttc cttttattca 120  
tacacctgct tttattgcac tatactaaca tgctcacca tgacaacatt ggccaaccaa 180  
gtggagtatc tgacttctat gatgaactgg actatgagga gcttgacaat ctctactcat 240  
atcgctttac 250

<210> 19637

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19637

tgctcacag aggtccagga aagatattgc ggncaattt actagttccg cccgtgagta 60  
tgacagtcac cgctttaaga gcgctgtaca ccagcatcgc ttcgaggcca tcaagggatg 120  
gtcgtttctc cgggagcgac gcgtccagct cagggacgat gagtatactg atttccagga 180  
ggagataagg cgctggcggg ggacatctct ggttaccccc atggccaagt tcgatccaga 240  
aatagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300

gtcctgggta aggggtcagt ggatcccgtt tgatgccgat gctatcggcc acctcctgcg 360  
 atatcctgtg gtgttgga aaatgccagga ttgcgagtat tggtaacga ggaaccggtc 420  
 tg 422

<210> 19638  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 19638

ttactttcta gcactaaca gactgagtat ctcaagacca tcattcttga gatactccaa 60  
 gctccaacca tagacgccag gaaggtcatg gtgggagaaa tggatgaacc tgactatatg 120  
 acccctata agaatttctt aatttgaggg gtgtttccac caaacaagaa tgaaacctga 180  
 cgccttaaaa ggaaggctag cttctatgtc atcattgact gtgaactatt gaaaagagga 240  
 ttaacaacac ccttgctcaa atgccatata gccaacaagt agactacatc atgcgagagc 300  
 tacacgaagg aatttacagc ctccatata 329

<210> 19639  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19639

ntgggtctcta caaatcttcg cacagcataa tctatcaatt tctctggaac ttggaccttt 60  
 ctctctctag aaaaacctca catgcagaag ctccctgaga aaaatggcca aactcgcttt 120  
 ccaaaatctg atttcaggct taaatagggtg gctttgttca tgcttgtgtg cttagcgcaa 180  
 ttctgaatcg cttagcacgg agcggatgga ccgaagcggg gcgcttagcg ggatggccct 240  
 tcaactcaaca aacaagcaca actcatcctt cttccagatt cttccttgcg cttagttgag 300  
 gaatgttgcg ctcagcggat agctcactaa gccagcagat tggcttatcg agaggggtgaa 360  
 aatcaacact tcaaaacttg cctaattatc ctgaaattga gagaaaatga ttattaaata 420  
 cacaaaatgg gag 433

<210> 19640

<211> 381  
 <212> DNA  
 <213> Glycine max

<400> 19640

tgtgaaaccc accatgcgtg catagaaagg tcgtggtcgg agcgcgaaac tgatgccct 60  
 ccacagtgtt atgtaagggt ataccaccaa ctacttgcca ctcaaaggca catccgaggc 120  
 aaagcctgaa gtcgcttaaa ccatggcggg gaatatcatg aagatacccc aaggattgag 180  
 agacaagtac atgacgagcg agacggctat caaagaggat gggagcagaa acattgacat 240  
 gctcactggg agtgtacgcc ccactagaca ggagtctaaa ggggaagcca accatatggc 300  
 gggaatgcgc gcgacatctg aatggcacac agaaggcctg tcggagcacc aaatcctgcc 360  
 tacatcaatg ccgaggatgt c 381

<210> 19641  
 <211> 312  
 <212> DNA  
 <213> Glycine max

<400> 19641

tcgctgcggt attctatata gagcgtacgc ttatattacg agttttattc cgacatacga 60  
 ctataatgtg attgtcttct gcatttgctc ataacttcgg tgtacaattc cgagtgtcga 120  
 cgacatacaa cgggactcaa tccgacgtcc agatcaaaag ttgacgtcga ttgaattggc 180  
 tatcagcttc ggtattcatt ttcgagcgac tacatagatt acgttacctc ttccgacatg 240  
 cgagtcgtca cgaattgccg agcgactttg ctcatagcgc cagctttgta tttctagcat 300  
 atggagatat ta 312

<210> 19642  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<400> 19642

agcttttttc tctttcaaac gacaataagt ttgtactggg atgtctgata gaatccagtc 60  
 atatatcgag acgctcgaaa ttgaatgtcg aaaccctaca ctactttaac gacaatacat 120  
 ttttactcac atgtctgatt gagtcccgtg acatatagag acgctcgaaa ttgaatgttg 180

[illegible]

<400> 19643

<400> 19644

<210>	19645
<211>	411
<212>	DNA

603401 "301460

<213> Glycine max  
<223> unsure at all n locations  
<400> 19645

tgccccncag ctgcccagg agagcaagtg tggttctctc tataagcaac cgccttctgg 60  
aggaagaatc tgaaggccca agtgggcctg attgctatct gcaccccat ttttactaaa 120  
tacacccoct tgctcttttt tggcgattct ttttccgtaa cgctacgaaa ctttatgaat 180  
ttcgtaacga tgcttgtttt ctttccgtaa tggtatgaaa ccttacggat tacgtaataca 240  
tcccttcttt gccttccgga atgttacgga actttgcgga ttacgacta acacttcctt 300  
ttaatttccg gcatgtcaca gaacttcgcg gattgcgcta caatgctttc ttttgactcc 360  
cgacatgtca tggaacttca tgaatngcct aacgatgggt gccaaagtacc t 411

<210> 19646  
<211> 353  
<212> DNA  
<213> Glycine max  
<400> 19646

acatgtatgg acggtataaa tagtgagatc taatcaatct actagatcaa taagattaat 60  
actacatata ttttaaataa aagaaactaa caatgtaatt aaattcaaac ttagttcaaa 120  
agtaaataatg cgtaaattgt ataatttctt ttatgttaat tcactttgaa aaatcagaat 180  
taattttttt aaaaataaat aatattaata atgaatttta atttacagct ctgcaatata 240  
tactttcatt gttggaacat caatatatat ttgaataatc caaattacag aatatgtgaa 300  
gaatatatga gatatttagt gaaacatgat aattcatgaa tatattctaa tat 353

<210> 19647  
<211> 418  
<212> DNA  
<213> Glycine max  
<400> 19647

tttcaaacgg gtaatatgct cacattctct ttttctata tcatattcaa acttggtccaa 60  
ataaagaata aagtcataat gactcacaga aagtcataat agtctcatal aattaatata 120  
gaacctatat cctaattgtc catcctatca gagcgtgggt cttccgtgtc ctctagcatg 180  
aagttcttca tagtcatcca cctattcatc tgctcccccg aacacaaggt caagatcatc 240





<210> 19650  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 19650

agcttattca catgaaacac aaggcatatt tatgtctctg gtgagcctaa gctcttctgct 60  
 ctagaggaca cgaagctgtg caaggaaagc agcacataga tccaagaaaa gaaactgtgg 120  
 accctgcacc ctttgaagat caagcagata cttttcttcc cgggttttgt aaagctgttg 180  
 atgtgactgt aagaattaga gaatattctg gaaaagaatt ataactaccc aataataaca 240  
 gaagaattag tttattgaga caatctgtct tataattggt tataacactg taaagaaaca 300  
 gcaatgattt acacgtgtat actgtctagt attataaaca tggagggagg gaagcaaaat 360  
 aatcagaaga ctatttagtt atta 384

<210> 19651  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19651

gacttcaccc attntagcat attcttacct aagttgtcca agcaagagct ctacgcctcc 60  
 caaaaaaag ctccaaattt tgttttagtac taatatatct caaaaaaatt attgtaaaat 120  
 tatattttaa aataaatttt aattaaaata ttataagtaa ctattaatct ttttattaat 180  
 aatgtagata acaattaata aacaataatt atttaccact atcataattt ttttagaaaa 240  
 aaagagattt aataattaat aagtaaaaaa attcacattt tttttatttt ataaataaat 300  
 aaaaaatctc attcttaaatt ttgttttaga tctttcaatt tgttgagtcg cctgatccaa 360  
 aacaaaatct tcaaaaatca aacacgattg tatcaagggc gttaagataa aacatgaaat 420  
 tgttctttt 429

<210> 19652  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
<400>        19652

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agcttttatc tttattgcac tattgaccta cctaggagat tttataccta gaggtactca   60
tgattnatgt cgacaagtac tacatatattg caaaaccaac tgatgagtcc tcctatgact  120
aggcatatct ccccatacga agtatatttgc ccgaatacga gtattttaa atactaaaat  180
aaaccaatta aaaatacact gtgcaagttt gattcataaa aatactaataa aaatgtaa at  240
gactctcacc attttaaatt aatgaaatat ataataatat taattaaggg aaatatgatc  300
aatataatat ttgtcgggta aacaatcaaa ttgataacac aaggatagct ta          352
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<210>        19653  
<211>        415  
<212>        DNA  
<213>        Glycine max

<400>        19653

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catactctat cagctgatat gctcagtgtg ggtttactat cttgaacaca tttcattcaa   60
aagaccgcca taaagcatag gtatgacttc caacataaca agatacatta ttacttgggt  120
ctaaaacata ttaacatgat tactttaaaa tattaaatga cagacatcat atattgaact  180
gtgactaatc gtatcctact atatgtaaga cgggtttacc ctagctgata gagcccaact  240
catagaaaca gatttagttt acgaatctgt tatcaatcct ctctttagga cttatctttt  300
attaatatct ttttaaggagt tgggtgaggg agagggtta ataatatatga cagaatgtta  360
gtgaggaaca ccttctggtg aatttctgat gcatttatat tttagtaata atact       415
```

<210>        19654  
<211>        388  
<212>        DNA  
<213>        Glycine max

<223>        unsure at all n locations  
<400>        19654

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agcttgctcg tggttgaaat ttcttctttg gtgttgaaaga agtaattatt agaggcttag   60
tgaagttgga atgttctaac tagcttggtg tgcaattttt gccatgccct acaaagtaa  120
tggttgaatg tatgcgttta ggaaccatt aagataatgc tttcgtgttt atgctcccta  180
gtgttctttg ccttttcttc tttggtgttg aagaaattag tattaagggt ttagtgaagt  240
```

tgaaatgttc taacttggtg tggaattatt gactttccct aagaatcaat ttgacttgcg 300  
 cttagctttg tggaaacttc aatcagtaga tagattcaaa tctcttggtt gaagtatttc 360  
 ttcagcctgt ngcatgtgtt acttggag 388

<210> 19655  
 <211> 447  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19655

ctcaagcttg gaggtatcaa aaagattatc ttgttataag gtctaattct cctagctaga 60  
 tcctaacacg caacattgga ggaggtggca ggtagagagg gagagtggga cgttggaggc 120  
 acaggggaga acaaaaagaa gaattatcaa ttgaacatag gtcattatat tggaaaacaa 180  
 ggggtaacca actttttctt cttgcatttt ccagtatatc atacataaaa aaacttatgg 240  
 aacattttca tgaagtagga gaaagtgtgg gatattctata tctaccaag gaagaacaag 300  
 tccgatgaaa aatacgattt tgtttggttc ttggaggtga ctaatcccaa aaggcttgaa 360  
 tatcaacttg ataacattca tataagagac ataaagttgt ttgtttactt aactagantt 420  
 gggatgacaa caacaaagga ggtgaag 447

<210> 19656  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 19656

agcttgagcc gttgttgatg agtactttga ccataacgtg ttccatgcat ttgactgaca 60  
 catgtaaagc cctgttatgt cctcttccct cgacggggat ttctcttcca gcaaagtga 120  
 ggtagttggt ggctgtgatg ttattgacga tccccccaa agccttctac ggagatgtct 180  
 tggactacgt gagcttcatt caagaccttt accagcaaag ctcgatgagg ctgagagctc 240  
 atgagcagct ccagaaggga gactctagct aggggtcttgt tgagttgttc aatgactttg 300  
 aactcgcttt gttggataat gcggaggaac tccctctctg agtgatacct ctttcttgcc 360  
 acagctctct cttcccatgg aaagatcctt cgtc 394

<210> 19657  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19657

cactcagctt gtaaaaatgg aagaaaagaa accgaagggtg aacgaatttt agatgaatgt 60  
 ctaaacaaca agaatgaat tgaaagtctc ggattcaaaa acttaccctg tgaagaacga 120  
 agaacgaatg aagaacggat gaagaatggt gaagaacgac ggaaaacctt cacggatttg 180  
 ctcacggaaa agtcttgga gtgttacgga aacacctcgg cttggatttt cttcacggaa 240  
 acaattatct tcaccaaaaa caactgaaat gtatagnnaa ggagggttaga gatatttgga 300  
 acagcctccc ttcgccaatt tataggaaaa ggggggagga cgttgctcgtc cagtgtgcct 360  
 tgaaaatttg aacaccgcta tccgcacccc ctctcgataa gttcacgntt ttctttcgt 419

<210> 19658  
 <211> 383  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19658

tatcttggtta aatcaggga acatgctgaa ctctgggggtg cctccaagg aaacatactc 60  
 atccagatca acatggcgaa ccagtttaag aacatgctga ttgacaataa tggcaaagggt 120  
 ggggggaaaca acaacggtca aaaggggtggt ggtgggaata accagccaaa gggtataat 180  
 caacaagggc agaaccccc aacagcaactt catcagtatc tgcaacagct tcagcatatg 240  
 aaaggggtcc aagatctgaa gctgtctcaa ttcaatgaca tgaaactgcc caaccgaac 300  
 ccgaacccga acccgatagt cggtaaatta aatttgctg acgaggatga tttgtctgat 360  
 gatgaaatat actagtttga tga 383

<210> 19659  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19659

ccttctcagc ccacgcattc atagtatatt gatcattaat attcacacaa ataacagaat 60

$\frac{1}{\sqrt{2}}$

<400> 19660

<400> 19661

8231

ttgaatccta tatggtacaa gaacatcaga agttaa

396

<210> 19662  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19662

tttcttggtt ctactgngga agctaccgag gagtgcttac acttatagta gctggtggag 60  
tggtccatat gcgatccacg tggtggtact cagcctggac cccctcttat ttgtgcatct 120  
ttatgcgaga gaatttatga cgcattgctca aatgcttact tctctatgga tgtgaaaaca 180  
caggtacatg gatggctgtc acttttcaaa atcgtctgta caagattatg aaaataagtt 240  
cagtgtcctg catcagctgg taaagaaaca aaagtttgca tagttttggg agtcattttg 300  
tttactcttc ttttcccaa cattcatttg ataagctgtt gtacagtgtt gacatgttac 360  
aggattgggt gtaataattc atacataat 389

<210> 19663  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 19663

tgtccacaca aacctgacct tatcattagt attaaagtat ataaatcaag gctcaggaga 60  
gattgatcat tttatggtgt ggctgcaa attaaccat tcaaaagttt ttaaaataaa 120  
ctaattatgc atgttcaatc aaaattttgt tgtctttcat aaaaaaaat gttaatgggc 180  
aaacataacg gtatacacat ggggacaacc atttaagctt gatgtcaagc aaaacatcat 240  
ggcttcaacc ccacgatggg tcatgggtgc aaccgctgt ctcaagtctc taaaacatt 300  
tgcacagaag ttgttcaatt cattgcattt ataattggga taattgtatc tttgttttta 360  
atggatctat ttogaattga aagcttatta tatttgaggt tcattaggac attacgcctg 420  
tattgtat 428

<210> 19664  
<211> 390  
<212> DNA  
<213> Glycine max

<400> 19664

agcttttggtt tcagagaccc cacttggtca gagccatggt ttctgatggc aacacttcca 60  
ggattcgatt tcacctttat caatgttgga taatgagaat caaagcgaaa tcattcatttc 120  
acttgatcat attcatgatt atgggcacat gcatgccaaag cttggagtca tttgtgactt 180  
ccagatactg tccatgagat aatcttttat atttctgttt tggtttatat attgctttta 240  
tccccactac ccacaatttt taatccatta ttgcattgaa gtcaactatc ttattcaaag 300  
tctaactgaa ctaaactttg atctgcttct tttaagaata acaggaaca tgtatactgc 360  
ttttgtggtg tttaagaatt tattggggta 390

<210> 19665

<211> 216

<212> DNA

<213> Glycine max

<400> 19665

tgacctatga aactcagctt cggatttcta ggggccctgt gttccgtgcg tttccaccat 60  
tctacgcggg cgaagagcac ctttggtttt cccagcacct tgcactatat actcaccat 120  
ccttggtgcc catccttcac tgagctcacg tgctccact gttcctatat ccgtgatact 180  
ctcgcgtccg agtctcata aatcctcaca tgcctt 216

<210> 19666

<211> 283

<212> DNA

<213> Glycine max

<400> 19666

tgcttctttt atgattagat tccattgcaa gcataaattt tttcttgaag aaacaactta 60  
gtatccttag aagtatttaa atagatgtat cccatcctc aactatatac attatattca 120  
cgagaaacaa cttactatcc tgagaagtac tttttgaggg ataattaaag tacttacact 180  
attactatta cgtatctaac atcaattttc ttcaatgtga tttttccttt tttctttggg 240  
tttatactc tttcactaat ttatgacatc tttttgtaca aca 283

<210> 19667

<211> 428

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19667

ctttgcaata aaatttcttt acaaaattat aattaaaatt tagaactaca ctaaagatag 60  
 tacaaaaggt actttgatct ctaattatctt aaaattcttt catctgatta tttaatccgg 120  
 ttgtaaaata gatctgggtgt tgtctttata tcattcatta aggaatagaa atttattcaa 180  
 tccataacgt tttgggtgat aacaaatttc cttaatatat attagacaac agcggaaatt 240  
 gttttcaata tttgattttt cattatatctt acaaaagtct aaacaagaag cattcttggtg 300  
 tgaatttaag aattttgaga ttcaaagta aaaaccttaa tatcagaagt taattatacc 360  
 gcanacctta attcatttat ggattangaa gggttcattag ttaatcaaatt atccttacat 420  
 agatgata 428

<210> 19668  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19668

agctttatct ntgtcccca ggcttcatgt agacttggtcc aaaatcgcca agtgaacctc 60  
 ggatccctgt cagatacaat actagaaggc attccatgca accttaccac ttccttgatg 120  
 tacaactcca cgagtttctc cattctatac ttcatattca ccggaataaa atgagcagat 180  
 ttgggtgagtc gatcagctat gacccacaca gcatcatgcc cagactagt cttgggcaaa 240  
 ctagatacaa aatccataga tatgctctcc catttccatt cccgaattta caatggcttc 300  
 aattctcttg atggtcgctg gtgctcaacc ttagcctttt gacatgtcaa acatcttgct 360  
 acatatt 367

<210> 19669  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <400> 19669

tcttacatag tccgtctttg cttgaccttc tttatgctta aaaacagaaa cattaggcat 60



atgcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcga aaggagaaca 120  
 attagtgggtg ctatgaacaa ctctattgta agcaaagtca acatggggta aacaagcttc 180  
 ccaagttttt aagttcttcc tcaaaactgt cctaagcaaa gttcccaaag tctattaac 240  
 aacttcogtt tgcccatcgg tttgtgggtg acaagtgggt gaaaataaca atttagtgcc 300  
 caacttgctc cacaagtc tccaaaaatg gcttatgaac ttagagtccc tatcactaac 360  
 aatgctcctt ggcaaaccat ggagtctcac aatc 394

<210> 19670  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <400> 19670

agcttgaatt ctaagagagc acaaatccta gacttaccca atttgtcttt tcaatccact 60  
 tagcccatc actagctttt cacttgactt tgttttaaca acacacacac tttatttgaa 120  
 cttctttttt tttaacttac aacattttat taattttttg tgtgttctgt tgtttcttac 180  
 ctttaaaatt atccatcaaa ccaactcccc caaatttggg gcaaaattgt cttctaacga 240  
 tgtgctctcc taaaacaaaa gcatggtaaa tggagatgcc aattcaaagc tcaaggttca 300  
 atttgacaat tacaattcag ctcaaagatg ggtgcaaatg atatcatcat tgagaaac 358

<210> 19671  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19671

tgtaggatta tggagtacc atcacatgtg gtactagggt gcggtcgggc gatggtgcac 60  
 aacaagtttt ccacatccac aaatcacgtt caaaccacc atcccttggt gccacctcc 120  
 aactgagctc acgtactccc acgtagccca tatcctcgtt tctctcatca ccgagtcgcc 180  
 ataaatcctc acaagcttcc ccaacatcca ggtaattcaa catccaaatc atcaciaact 240  
 aaaaaaccaa gcaaacagg gcaaaggtag aaaactctgc ccaaaactca aaccaaactc 300  
 acagcttttt ctacttaaa gacccagta acatttcctt cgttccaatt cgttcacgt 360

tggatcgact cgaaaat ttt actggaagtc tctagtagat aagcctacan tttgacc 417

<210> 19672  
<211> 399  
<212> DNA  
<213> Glycine max

<400> 19672

agcttggttg acagccaatt tgaggggaac tgagcgggtt tgacgcttca ttaaaaattg 60  
tcgaactgaa ccacctttgg catactcaga tacaatgcac cataccattg gcttgcgga 120  
tgaccaatg aaacgaacta tgtagaatg ctttagtggt gccaacattg tgacctcctg 180  
ctggaactgt tgttccatca attgagcctt tgctggatca ttttcaggcc tctccaagat 240  
tttgattgca acatcttcac cattgtaagt acctcggtaa agtttcccaa aagctccttg 300  
agcaaaaggc tcacccatat tcagtttctt gatatacaatt gtccactcat caaaattgtc 360  
aagcccttca gtcggagaac tattgtccat tatagcttg 399

<210> 19673  
<211> 449  
<212> DNA  
<213> Glycine max

<400> 19673

tcaagcttgg tatattgatg ctgatggtgt agttcagttg aaagtactag cagcctgttt 60  
gattgacaca ggcgatgaac tccttggtac tgaattaatg tttaatggtg aatcaatatt 120  
tgtttcccaa ttatagtta catttcatta tgttttgtaa cctgtttttt tcccttcatt 180  
tccctccac cattaggtac ttttaatgac cttgaccatc atcaagttgc tgcccttgcg 240  
agttgtttca taccaggaga taagtcaact gagcatatac aactgagaac agagcttgca 300  
aggcctctgc tacagcttca agatagtgca agaaggatag ctgaggtagg tgtttggtca 360  
cttaacctga atgtatcttc tgaattaaac tataaatggt atcacccttt tgtcacagat 420  
acaacatgaa tgcaaattgg atataaatg 449

<210> 19674  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 19674

agcttgatct tgaattaatc ttgaagcaat gcttgtttgt tgaagcaacc ttgtattatt 60  
cttgaagcaa tgttttgaat gtttattgaa gtaatcttga aagcaacctt gtttgattat 120  
tctttgacat catcaaaatc atgtattcat acattcacat atactaattt gagtcttggc 180  
cacatcgtct acaatagtta aaggtaactt acatttaata aaaaatgtta atgagttaga 240  
taaaaaaact taaaagaaaa attttgaaaa ttttaggaac caaatgtaat aaaattattt 300  
ttggaagact aaaactaata tgagtcaatt aatatttgga gtaacaaaat catatttaac 360  
tcttatttat aggtctatca gtttattatg tgaccaatgg a 401

<210> 19675

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19675

ctcaagcttg aagggtgtata gccaccatc tttntatact ggtaatgtgt ctactatcat 60  
tatcatcatt ttttctccgt cattgaggtg ccacttgaac tgctaggtct ctccaccttt 120  
gggcgtattc ttttgaaaga ttcgtgcccc ctttttgac atgttctgta gttgcatcct 180  
atcctaagac atcatattga cactgcttaa cgaaggcaac cactangncc ttccaagaat 240  
ggactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta agactttctt 300  
ggaaggaatg tatcagcaat tctcatctt ttgcgtatgc ccccatcttt cgacaatata 360  
tcttttagatg gttcttgtgg caagtagtcc ccttgactc gtcaaagtct agcaccttga 420  
acttgggagg ggtgatgata ttgggtact 449

<210> 19676

<211> 367

<212> DNA

<213> Glycine max

<400> 19676

agcttcttat ccaagactca tcttggcgga gaagctcctt ctccatggc ttattcccta 60  
gtggatggcg cctcctctca cctcttctct tttgtcttcc gcgcattga aagctcattg 120  
aagctcattg aaggacctca ttgaagctca aagatccagc ctccatagaa gctccacaag 180

caagcttcca tcaagtggta atcagagcat aagagcttca agtaggtgct ccttaaacca 240  
 tgaattgtgt tgggtttagg ttcccttgtg tttagttttc atatagaagc tagatttgat 300  
 tctctatggg tcatatttct tgttcttggg cttgaaccat gaattgtgtc tggtttaagt 360  
 tcctttg 367

<210> 19677  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <400> 19677

tagccgaatt cagatcgaat tgaagttagc ttagctcatc cttggtcagc ttagcggacc 60  
 aaatcagcct tagatgcaag gggtgggcac taagcgcttg agactcgcag cttagcgcat 120  
 gaacaaagat gcgcttagcg tgaggcttgc gcttagcgaa aggactactt tttagaaaaa 180  
 agttttctaa gttatttttc agtccttttt ccaaaaaatt gaaaccctta tgttaaacad 240  
 tcaaacatag gctaataatc tcctatgtat agatcatata acaagttcca aatgattaaa 300  
 tgcattaaaa acaaagataa cagaaattaa aaactggggt gcctcccagg aagcgcttct 360  
 ttaacgtcat tagcttgacg cttttacctc accgggtgat cttatgtttt ggttcttact 420  
 ttcagaacct cttgacct 438

<210> 19678  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19678

agcttgtctt caaacttgct tgtaataggc tgccaaacac tccagctctt agaagacacc 60  
 cctaccttgc aagtattttg ttcaataatg tgattgaagc aaatttttta ttagatttaa 120  
 ttaaataaat gtttagtatt ttgttctttc ctattagtct gttgatagct aactggaata 180  
 aaagaaaagc taaggtcgga ccagttgata gctaattgga ataaaagaaa agctaaattg 240  
 cagggaataa ttatgatatc tttttatttc atcattaccc ctttntatag ccatttcata 300  
 caagatattt tgctaagttg ttataacaga attttgaaat tgcataacca cacaggtatc 360

<210> 19679  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<400> 19679

tcaaaacaca gcaacaçaga atctaggtgt ccaaaacccc tcaatttaat ggattttcta 60  
 ggtttgagaa gtgaaattga gaatgaggtta aatttgaagc aaactctcac ctacacacaag 120  
 tcataacat caatttaaac ttgtccaaac tggatttaca cctgaaattt caccaaataca 180  
 aaatttgact cctcaacacc caaatttacc ctaaaaatgg ctctttgttc actttgggtca 240  
 tttgtttttc tctctagctc agcctaacct ttctcataaa tcctaaatga catttcaaac 300  
 taggattaac tcatttgaac cttcatttac tacagaatcc agatttaacc ttccaactca 360  
 caaagcctca ctcttttttc cactcataac accacattct cactttctaa ccctagggtta 420  
 actctaccct tcattctctaa cag 443

<210> 19680  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19680

agcttataag atatctgctt atgcggcttt ctatggttgg aaaatgtgga acgttggtga 60  
 gtatctggga ggagatgcaa gaatgtgggt atagtctgga cttggaagtt tatgagtaca 120  
 tcattagtgg tctttgcaat gtaggacaac tggaaaatgc tgttcttggt atggaggagg 180  
 ctttgcgcaa ggggttctgc ccaagcaggc tagtatatag taaactaagt aacaggctgc 240  
 ttgcttcgga taaatcagan agggcttaca agctgttttt gaagatcaaa catgcccggt 300  
 cccttgataa tgcaaaaaaa tattggcggt ctaatggctg gcacttttga acaggcatgc 360  
 taatcagaag ctcttacagt agatcctctt ggttgctct 399

<210> 19681  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 19681

atatagctna catctganat ccttaaagaa gactgatgaa atgcatctta tagctctcat 60  
gttttaagca tacgaagcct gttggtcact atctcattga taaaacttgg aggttaagag 120  
ttgaaggtct agtagtgaac aatcacgctg taataatcaa taatgggtccc caccctctc 180  
ctattattat tattccaaaa gagctacttg aatcatcact gctcaaaaat tcagagctgg 240  
ataagttgta acaactgaca aactcttgta ttctctccat cttgaaccct acacaccact 300  
gtgtgtagtt gcaacttgca agcttgattt gacttcact atactactat atatgatttg 360  
cacaatcact ttagctcgta tactagttgg ataggtgttt aattctagcg attagtcaac 420  
aagcacg 427

<210> 19682  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 19682  
tatcttaatt agagtatctt taatataaat tattgagctc aagaatttct atccaccaga 60  
tctattacta ttctgttta aaaaaatttc atgcggaaag ttgaattcta aggaaagaac 120  
tctcaagaat ttactttta tcaaaaaagt attatttttt aatgtcgttt gagggaaaag 180  
aaagatctta ttttctttt atgtacaagt aaaatccaaa aatccaaatt gaattttatc 240  
agtaaagtaa acatgataaa agttctttat catgagacct ataaaaaata atctaaaaac 300  
aattcttcca ttaaaatgct cttaatgttc acatggcgag acagagaagt tattaacaaa 360  
cctttgatat taacaatgaa gttaccaatc a 391

<210> 19683  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 19683  
tgcagatttc ggcttggcca tgagagtttc cgaaggtatt tggccgtgaa acctgtatgg 60  
atattttttt tctctctgta tgtatttaac ttgtattgaa tcattgctgt cccacctgcc 120



<210> 19686  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 19686

tatctttcac aacatccaag caaaaaaaca ttcaaacagc ataagctatc acagccaagc 60  
 aaaacagagc aaaggcagaa aactctgcc aaacaccaac caaatcacag cttttctcac 120  
 ttaaagaccc cagtaacaat tccttcgac caattcgta accgttggat cgactccaaa 180  
 attttactgg aagtctatag tacataagcc tacattttga ccgttgggat ctactagcaa 240  
 acattcagaa ctcatctgt actactcttt ccacaaccaa tcacacacaa gcatttttct 300  
 gcacaaagcc aaaatcctgc tgcacctatt ttgacagcaa aattctgcat aagtgcagat 360  
 ttcgaaaatc acacttgccc tcatccaatc 390

<210> 19687  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 19687

aagaagaaga agaagatctt caaagagatt tcaaggcttg taaaggattg attggaaaag 60  
 caaaagtatt caagattgct gttagaaaga ttgattggaa aatgaaaaac aaagccttgc 120  
 ttttatagac tcttcatgtc tggtaagaa ggatcattcag aagagttata acttttagaa 180  
 aaacttaaaa cccatttgaa aaagtcaaaa cttttttgaa gagttacatc tatagatttt 240  
 tcagaaacaa acactggtaa tcgattacca aatatgtgta atcgattaca caaagctttt 300  
 gagtgagaca atgtgactct tcacttttaa atttgaattt caacgttcaa ggacactggg 360  
 aattgattac caaaacattg taatcgatta cagccttttg aaaatatctg gaacatt 417

<210> 19688  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 19688

ttcttttggg ggctatggag tttatcctca atactatgca tcatataatg aattgaaagt 60



gagctcatgt gcatctaaat attactatct gagattaatt tatgctttgc tagcattaat 120  
 tgactgttaa acgttatgcg tgaacagttc tgtttctgta catttgtact gtgacaaatg 180  
 tgaaatgctg tttctactaa agtcatgcta atttttcctg cctgtctgca acagattatt 240  
 atagttgtta tatctcatgg tcaaattaac tgcagtcac cattgctttt tgtgcatat 300  
 atattaactg ggtaaatgtg ctatattggt acatgagctg catccaacag tgcttgcag 360  
 ctgactctta ctatccaatc ttgg 384

<210> 19689  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 19689

ctcctacaat agaggaaaca caaaatgaat ttgaagagaa ttcaaattgc acctctgatg 60  
 gaattcaagt ttccataggt gaggaaaaaa cacccaattg cacgatatgt gaaaatgaag 120  
 tggatggcgg aaaaataaaa atatgtggcc atcggttttg ctccaataaa tactaccatg 180  
 ttaggtgtct aacaattaat cagttgaagt catatggtea ttgttggtac tgcccttctt 240  
 gtttatgccg ggtagctta actgatcaag atgatgatcg gattgttctg tgtgatggct 300  
 gtgatcatgc atatcacata tattgcatga gacctccgcg gacttctatt ccaagatgga 360  
 actggttctg cagataatgt gatgctggaa tacaagcaat ccaccaggct aaacacgcat 420  
 atgagttc 428

<210> 19690  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<400> 19690

tgctttctag ctcttcattg gtgtattttg atctcctttt ggtgctctaa attgtgggaa 60  
 tgtgctcaca tatgtggggc aattttggtt tgttttcttg cttgattaag tcgaattggg 120  
 ggtttgtatg agatggccct aggcctataa tgcattttga agtaatgggg catgccacat 180  
 tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc acacaagtgt tctgtgaaat 240  
 gcctcaatgg cattagcgcg tgatttttgt agggaaacaa cccatggggc gacttgggtt 300

gcacatatta ttgggacatg cattcatttt cgaaagagct agagtaattg ccccatatgt 360

g 361

<210> 19691  
<211> 418  
<212> DNA  
<213> Glycine max

<400> 19691

tgaatcggac atccgtgtga aaagttatga ccatttgaat ttctcaagag cttccgttgt 60  
tcaatttcga tcctctcgac atattatgca cccgaatcgg acatctgtgt gaaaagtcac 120  
gatcatttga atttctcgag agtttccgat gtttaatttc gagcgtatcg atatattata 180  
accctgaatc ggacctcagt ctgaaaagtt atgaccattt gaatttgacg agagcttccg 240  
ttgttcaatt tcgaatatca ctgtatgtga tgcgcctaaa ttggacattc gagttaaatg 300  
ttatgaccat ttgaatttct caagagcttc cgttgttcaa ttctgagcgt ctcgatatgt 360  
gattcgccctg aatcggacat ccgtgtgaaa agttatgacc atttgaattt ctcaagag 418

<210> 19692  
<211> 381  
<212> DNA  
<213> Glycine max

<400> 19692

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag agagagggga 60  
agttgaactt tgagttgtgt ctcaacagac tctcattcat caaagttaca acaagtgtta 120  
cacatgcttc tatttataga ctatgtagct tccttgataa gctttcttga gaaaacttcc 180  
ttgagaagct tctttgagaa aacttccttg agaagctaga gcttagccac acacaccct 240  
ctaataacta agctcacctc cttgagaagc ttccttgaga agattcctaa agaagctaga 300  
gcttagctac acacaccccc tataatagct aagctcacc ccatgccata atacattaaa 360  
atataacaca aaagtcctta t 381

<210> 19693  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19693

tagtgaccaa tgggtgcttg aatcccttga acattggctt gtcctagact tgtttaatgc 60  
tccaaattca cctaagttga agctcaagct aagccatttt tgtttttgag gtctactgaa 120  
cttttagaga agagaggaga aagagttctt gctttgattg cttgctttct tgagtctttg 180  
atctccaagc cttccttcca ctcttcacca tttttgtgca ccaactgagg tatggaggag 240  
ttattcattc ttattcttgc ttgttttagag gaaacaaatc tttaaagata agatcccat 300  
cctaataaag gttcatatta ttgtctaag actaatcaga ggaggaagga cgtgagcatt 360  
gcagattcct ctacttttcc tatatgccat gacaaaatg agacanatgt ctataccttg 420

<210> 19694  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 19694

agctttaccc gtaggataat gtttgttttc aataccgccca ggtaaaagtg tatggccgtc 60  
gatgtccgat gaacggcgct cgctgtccgt ggtcatgcct cccggcgctg agcactcgct 120  
atcgaccgta ggcgctgggg ctgccgccgc tacctgcaag ttagtgatgt ccgatgacag 180  
gcacgcgctg tctgtggtct tccctctcgg catcgagccc aactgttga ctgtgggtgc 240  
tgaaactgcc gccactacct gcaaggatag tgaggtttgc agcgacggca ttgtgactga 300  
ccgcggcgag gccatgtcac tctcctccat aacacttctt ccgatgaact a 351

<210> 19695  
<211> 421  
<212> DNA  
<213> Glycine max

<400> 19695

tgtagatccc ttatgagttg aatcgacat agaatcgttt ttttggtagg ctcgagtaa 60  
actctttaca atcatagttt tgttactgtg ccgacgattc tactccacac catagacaac 120  
accgtaatag tatgtcacga cagtggctgg gagaggcggc atggcgaagt ccgtgaacga 180  
gggtttcact agtgaggttg gtcgaaaatg gcggacatgc aacagaaaag gatgcatgaa 240  
gaagagaaaag aatatattta tatcattgtg gcaaaattag ttctatgatg tggcgtgcc 300

gcgacgatgg atgacgggtg cactgattat gtgaagcttc atgctaagca taatgtcgca 360  
 atcactattg gaacgagggc gtcgtgtgag ataaaaatga ttatgcttgt gttcggatta 420  
 c 421

<210> 19696  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 19696

agcttgagct catgtaggta atgaactctg agagtgcaaa ttgatttttt ttcgcacaaa 60  
 ataagatggg ttcctatata ctagctttga cataataagt ggtattgtgg tagactaaca 120  
 tttttttata tattttccat tgaatgctct tctcccccat taagcttggt caaatttcta 180  
 tccattaaaa gcagcctcct ttaagtagac ttttcatctt agtaatagga aatgaaaagt 240  
 cccattcata atgacatttg gaaactatta ctttttgatt tggagattaa gattatcttt 300  
 taaatgtttt cttcttcaaa catttcaa atagaacgaat tcccttataa catttatatt 360  
 tttggataag aaaatggaca ataataaaat aagatgt 397

<210> 19697  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 19697

tgagatgagg aagtgttgaa gggtgaaact tcctgctttt attgttgacc acagagtggg 60  
 acctggagat atgtcgcggg ggtcaggaga ccttggggac gtcagggtggg gtgctattgc 120  
 ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcgggtcag tgagaacctg 180  
 tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa caagaccaca 240  
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtaatatg tggattgtgg 300  
 cctctggtaa tcgattacta aggggtgggta atcgattaca aggccttaaaa ttgaggacag 360  
 gaggctaaga tggctctctg taatcgatta ccaaggggtg taatcgatta ccaggcttga 420  
 taacgaagtc a 431

<210> 19698  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19698

agcttctgtc catggtgatt aagcattgtg taagcttttg ccatgaattg ttaagcattg 60  
 aattattatt ttgcttctgt cttgaggggt taagcattga ttttagcttc ttctcttgat 120  
 ggtaagcct tgttatttct accaagtggg taaactttga ggtatagttt ctgcttggtg 180  
 gttaagcttt gatagttttc tgaattgatg atttgagctt ttgtcaaagc gccttggtgt 240  
 gatttcgctt gatgggtaag ctttgatact tgctttggac tcttggaaga agattgagat 300  
 agtcgatgat ggtcgaagat ttttagaaga tatgcacat gattgcacct acattttgat 360  
 ttgtttctaa atttcaattn tgaccgatgt attt 394

<210> 19699  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19699

tattatgtct canatgggaa gcagcacatt ccaccagaag atttttggta ttctcactac 60  
 agaaaaaaaa atacaaacag ttccacaata aatttcagat aagagaagac attaaattga 120  
 aaaggaacaa taagtaatta ctgaatgtga taaggaaatg tgtcccagga aatgtttatc 180  
 ttctcccaag gaataattct tctcataaac tcttttttaa acttatccct tgttgtcaaa 240  
 aatgggtgatt ctctcctttt actttctata gaaagcttct cattattaag ccattcctct 300  
 tgttcctggt ctccaagtcg tgcatgtgca ttgctgtact tgacatcttt cccaaacttc 360  
 tcttggtggt tctgtccttt atcaaagta gtcacatcat taacatttac atgtttatcc 420  
 tcatttgcac ttcttccatc actt 444

<210> 19700  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19700

agcttgtaag tatttggtgg tataatttgc ctgttccatt atgcttttaa tgtctctaga 60  
 gggtacttcc tegttgacat cttttgtttt gaatggaatt gccataacag gtttggttgtt 120  
 actgtctttg atatttggtg gttgatattg tgttggtgga ggtaattccg attggattaa 180  
 ctccaccatcc ttcacttgcc aatttggtat gacatttggtt gttggatcac ctatgatgtc 240  
 ttgtttccga gggtaatcta tatgctttct gatgagcata agcatgaaac ctatcgaaga 300  
 aacagacatt aattttgact ctttcgacaa attcgtagaa cttgtcatgg attt 354

<210> 19701  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19701

ntgtgcgatg tctatccatc attaagcggg aaaatcagga aaaaatggtg atttacaccc 60  
 gattgagact acctcattca taagcacttg taagagaaga aaataagaaa gtaaaatgag 120  
 taaaaatcct ccataagtt agatgagaca acttttataa gagttaagta cataagttga 180  
 tccaaacagg gttttagggg aacttcaa ataggctcaaca aaactaaatg caacagctca 240  
 caaaaagcac caatgtagag ataataatgg aagcgcattc caccagaaca thtagagata 300  
 ataatgtaca atgcacaaac aacaccaaga aacctgcaat taaaaaccat caaaacccaa 360  
 ttgattctaa agaaatcggg taaaagttag accatcaata aaattttaaa aaagggaagc 420  
 aaaagtcaaa acttttccat t 441

<210> 19702  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 19702

agcttatgct gcaaataattt acaatagacc tctcaacct cagcagcaaa atcaaccaca 60  
 gcagaacaat tatgaccttt ccagcaacag atacaaccct ggatggagga atcacccata 120  
 cctcagatgg tctagccctc agcaacaaca gcagcctgct ccttccttcc aaaatgctgc 180  
 tggcccaagc agaccatata ttctccacc aatccaacaa cagcaacaac cccagaaaca 240

accaacagtt gaggccctc cacaaccttc cctcgaagaa cttgtgaggc aaatgactat 300  
gcagaacatg cagtttcagc aagagaccag agcctccatt cagagcttaa ccaatcagat 360  
gggacaattg gctaccaat tgaatcaaca acagtcccag 400

<210> 19703  
<211> 435  
<212> DNA  
<213> Glycine max  
  
<400> 19703

tctggaaaat tgaagttcgt ttttataacc ttttcatgtg aactttcaaa catattattg 60  
agctcattta cactaattta atgtagttca aaatttaaac acatgatttg agattttaga 120  
aatgatatta attcgtattht agtaatgaat atcatgtttc gtaactatat tagctcttat 180  
atttcatatt tatattttct attattcctt tgaacaatt tatacttcaa tgttggtctg 240  
agactcctca aatctatttg tgctgcaata gttcaactat ttcatttgaa ctggattggg 300  
gtagttggta tgaaattggg ttacctgaat tcgttacaaa taaagtagaa aatttatata 360  
taaattgttg gatggatttt gttggacaat tgtgctataa gtagtacata tacatgatca 420  
aacaaaacat gataa 435

<210> 19704  
<211> 385  
<212> DNA  
<213> Glycine max  
  
<400> 19704

agctttgatg tatatatgca aactcaactt gtccctttct ttgagtttct cataactata 60  
atattataat atgtttaagt cccaataaac gaattttcat ttgggtcatg tcatcacttc 120  
acttaactga cgacatgaac tcatgacaaa agttttaata tattaagcac ttaaaacaaa 180  
attcatatca tttattaata tottaaagggt atttaagtct atattatatt attcactctc 240  
tcaactctga tatatatata tatacaggat gttgttgata tcagaaatct cagtctgggt 300  
tacactcttg ctggaggtaa ggcccttttat aactataagt ttttaggatt aatattaata 360  
taacagaaga tacatgcatg ataaa 385

<210> 19705

<211> 415  
 <212> DNA  
 <213> Glycine max

<400> 19705

tgtacgtgaa tattaagac ttcagactca cttctctttg tcttgaggaaa tagattcagt 60  
 gcagtcacat tttcatgcat tcaatttatt ttatatattgt tctaaatttc agtagttcaa 120  
 ttttgaacaa ctgaaatttg gaattcattt tttaaaatta attggtcgaa ataaaatatg 180  
 agttattcaa tcttcatttg atagttccaa gttactaaat gcattgaaaa gtgaacgcac 240  
 aggatctgat cctctgcctc agtctttcag tcaatgatag gtattctcac acaaccttcc 300  
 aagctagctt gctccaattt ttgcaaaatg cctcaatcct aatagtatta aatcctatgt 360  
 aagagtcaca acataagtta cataactgaa gagttattaa attttaatat tattt 415

<210> 19706  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<400> 19706

tgctcgtatg aattacattc tgcccctagc tcaagcaaat tcttaattct tcttgacatc 60  
 atcaaaatct tcatgattga catgctaccc cttgttgatg acgacaacca cctgtagggt 120  
 aggagcaaca acaaagaaaa gatctatttg catataggta tactccccct tgtgtttaca 180  
 atgattgctt atatgagaca attgaagatt tcatattttt catatataaa aagttgtctc 240  
 atacaacagt aggaaaagct tcttactatg ttatctacta tcattctctg accctttgac 300  
 aacatc 306

<210> 19707  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 19707

tgtataatca aattaaagc gcttgatata taaggctatt tactatatta tataacttat 60  
 gtaacttata actcatataa acttttagtg aaaccaacct attcaatcta aacttaataa 120  
 ttatgatgga attgcaatgg ctgctctccc cattatgaaa tactgccttt atatattccc 180



ccacttcaag tagtacactc accaccccat tccaattctc tctcagacac tcagacatag 240  
 ataaatgata atggcacagg ttgggacagt aattatcccc cactccattt tccagtgcc 300  
 atttatTTTT gtttttgaca gaaagtgcga atttattatt gaacaatgaa taatgattca 360  
 tcaacattca tccactctaa acatctcatt aatacataag ttttatcttc attattacat 420  
 taaataatct at 432

<210> 19708  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<400> 19708

agcttctctg gtgccattcc tgccaaggca aacatttga aagttagttt tagtgggaca 60  
 ttactcttaa agcaaaaatg gcatgtaacc tcttcccatc aatacaaaaca tcaatgtaaa 120  
 tttagagcaa gcttatgcgc atatttccct acgaacgttc acttgcacaa gacatcctat 180  
 taactaagaa aaatgcaccc atatacaatc aaggtagctt ccttacctag attatttaca 240  
 tgtacttcca aagtgtattt gttatttaca tcatacacgc catcttgtca aaatttacac 300  
 acatgcatac tcaaagcatt tcgggggtacc aaaaattgca catgcgctca tcttgggtatt 360  
 tctaatatct atacatatac aaacttcatg atgaat 396

<210> 19709  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19709

tataaatata ttacatgta tcaaatatat atataattaa taataacaat aataataaat 60  
 gtatcattag ataaatattt atttaaatat atatatatat atatatatat atatatatat 120  
 atatatatat atatatatat aagcacataa aataattaa tgtactaaaa acattaacat 180  
 gaatatacta aaatataaat gtaagtttaa taatatatat atatatagaa gtaattttac 240  
 atgtatatat ataatttgaa tgattaaatg cattaaatat aaaataataa gaacatgcta 300  
 aatatatcct tatataaaaa taaaatatat atgtataata tatgtacata acaacaaaa 360  
 gtttatatac atatatatat atatcctana tgcattccaa cgaagccatg aaaaccaaac 420

aatgagaaac ga

432

<210> 19710

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19710

tgcttttgagc caaaatcctg actcaccata aaccttgacc caggggtgaga atgtcaatcc 60

ttaccctcgg aagcgaaaag gaaagaagga agatttccaa tcaaagagaa aggaaaaaaa 120

aagaaagagc agaaggaaaa ttccccaatc aaagagtggg agaaagcaaa aagaaaagaa 180

agaaaattct caatcaaaga atgggagaaa gtaaaaaagg aagaagaaga aggaaagaaa 240

gctcctgatc agggattgaa ggaaaacaga agaaatgtgc agagagggtct ttggaccgga 300

caatatctga acaatacaga attgtcacca aatgaacaaa aaagaaggaa agganaccac 360

gacctataat ggtcttctcc ctttgattac caacccaaaa 399

<210> 19711

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19711

ntgaggtacc aatcattgtc tttcatcatg accgtgtagt aaggaaccta ttgggtgaga 60

actttcaatc tgcccctaga ttcgcttgag gtttatgcat ggtacctttc attgccccag 120

tgtagggctt tgaggtatcc atcgttgttt tgttttcaca accttgtagc aaggaagaat 180

gaaagaggcg gtttgattct cgcaaaaaga atttttcaag gacgagaaat agttgaagga 240

ttttttttga gttgacgggt taagtcaaata gactcctatt cttgataact cacttctctc 300

taaaaagac aaacttttag gaatgataaa atgaggtcac atgaatgtct atatttttac 360

ttgaaaacac agtcaatcaa atgctntttt cttntcttt gtgaactctt ttttttttgc 420

tttactcgt 429

<210> 19712

<211> 388

<212> DNA  
<213> Glycine max  
<400> 19712

agcttttttaa tcatgtttta tgaacatttc atattaaact acatcctgga agagaaataa 60  
taatataata aataatactg acgtgaccaa acaagaaata taaaaaagtg tcaaataagt 120  
gcatctaata acagtattta gacttttctt ccttgattta cttaaatacca cgtgattttc 180  
attattatct taatatcagt atctaattac actgttttct aaaggcatat aacattgtgc 240  
accaacttct gcctcatcga ttcccaacta tccaggggac gttctgggca acaatttttt 300  
ttatttggtc aaattaaatt tcaaatgtcc acacctagca tgtagattca gggtaagaa 360  
ggaagttggt tatatactgg taattggg 388

<210> 19713  
<211> 422  
<212> DNA  
<213> Glycine max

<400> 19713

tgtactcgaa gccctctttt taaggctgag gctccacacc gccagcggat actagctgct 60  
gagtctgcta tcttcaatcg actttttgtg gagcgggcat acaagtatcg ccctgttaag 120  
gtggtggaat ttgaacttcc gcggcagcag tgtgtggttt acttggatct gaagcgggag 180  
gagtgcacca atttgttccc atctggccga gtatattcac aggcattcca tttaggtgga 240  
caagggtttt tcttatcagc acattgcaac atggaccaac agagctcttt ccattgcttt 300  
ggcctgtttt taggaatgca ggaaaagggc tcagttagct ttgccgttga ctatgagttt 360  
gctgctaggt caaggccaac agaggaattt gttagcaagt acacatgcaa ttatgtattc 420  
ac 422

<210> 19714  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 19714

tagcttatgc tttgaaaaaa gtctaagtga gtctaccttg tatgtcaaga agagggatgt 60  
tggaatagtc attgttttct tgtatgttga tgacttactt atgacaagaa gttcaaagga 120

gctgattgaa gagttaaag gaggaagaa agaagccttt gaaatgactg atcttgaaa 180  
aatgttcttt ttccttggtg tgcaggtgca acaagataga ggtgaagtct ttgtaagtca 240  
agaaaaatat gcaaaggaaa ttcttagaaa gttcaagatg gaggaatgca agccaattgc 300  
aacgccaatg aatcataagg agaaattcag caatgaagat ggagctgata acgttgatga 360  
aaaactgtac aaaagcttaa tatgatgtc 389

<210> 19715  
<211> 410  
<212> DNA  
<213> Glycine max

<400> 19715

cgagctctga cctttttatt aaataagttg agtcacgtta gtccttaaag gagttagaaa 60  
ataggcctct gagacgggtg actcacccta ctgtatccc taattgtgtg tatattgaaa 120  
cataataaat tccatagaat actttatact attgttaaag attcctagtc aagtattatt 180  
gtcaattttt gaccaaatac atggattatg gacaaagtga ttataaagtt agtcattgga 240  
cataacaaat tatgaagagg gatatgaatg atctagatga aatttattcc tccttcataa 300  
ttagagtaat atctatcaac catcttaata aagtaagaag ctaggcatag ttgtgctcaa 360  
tgagtcaata tgggatattg atctcatcta ttttaatgtc ttttcaaagt 410

<210> 19716  
<211> 411  
<212> DNA  
<213> Glycine max

<400> 19716

tcttagtttc aatgatgcag atgagtttgt ggctacttca tgcactcctc taatgactat 60  
ggcatcattt ctggctctaa actgttgaga gttggaaacc atattctcaa ctaaatttct 120  
ggcttcagca ggggtcatgt ctccaagggc tccaccactg gcagcatcta tcatacttct 180  
ctccatgtta ctgagtcctt cataaaaaata ttcgagaaga agctgcttag aaatctagtg 240  
gtgagggcaa ctggcgcata gttttttaaa tctctcccag tattcatata ggctctctcc 300  
actaagatgc ctaatgccta aaatatcctt tctaattggc gtggctcctgg aagtatggaa 360  
aatttttttc taagaatact ctcttgaggt catcccagct cgtgatggac c 411

<210> 19717  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19717

agctttaagg tcaagagggc tgaaggatga tacaacttgc ctggttag atattattcc 60  
 ttcagatcat cccgtgttgc caacaattcc aagaaagaaa cgtaacgtgc taacttcctt 120  
 tctctttgga aagaaatctc aaaactctac aaacaaaggc accaataagc tttcttctgt 180  
 tgggtgtgtg gaggaattat ttgaagaggg ttctgcaatg cttacagaga ggtaactggg 240  
 accataactg ctaaatttat atttgcattga tgtcatttga agtttaattg gtcaccatca 300  
 tgggtggaaag agagaaaaaa tgantccttt ttccaatac atctatcttt gattctntaa 360  
 atttcggact taaaat 376

<210> 19718  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 19718

tgaaagcagg atgatggaac aacggccttc taatgctcaa gaaaatagaa gagtttctag 60  
 ataagtgtta ccttgtatgt gatgttaaga acataattag ttttactaat ttgtagggtga 120  
 atctcgagtt gtacgtactc ttgctttcac gatctatctt ctttttgcca tatgatttta 180  
 gacaaaagta taagttgggt ataaaggagt tttccgcatg gtctcgtggc ttttctctat 240  
 agaaaaatac agcatagaac ctgcgttctc gttaaactgt actattttca ctactaagga 300  
 catgattacc attgtgtttg gttgaaaggg agaaaaagaa gtgaaatagt gaaagagagt 360  
 aaagatagat gaaatattta aattaaagtt ggttgctaga taaacaaaag aaaaaaaaaat 420

<210> 19719  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19719

cccaccaagc cccacagaaa acaataaaaa aaaaacccaa tcnnnnncag agagatcagc 60  
 actcancccg aatgacaaac cggaccaaaag accccagcac cacagattaa cccaccccca 120  
 naggggggga gaacaaacga cccaaaacac caaaaggaaa agacaaacag aaaaacgcaa 180  
 aaaaaaacac aaaccaagaa caaacaaaac aacacacacg acaaaaagaa acaacacaac 240  
 aaaacaaaac aaccgaaaga cgaaaaaaga ccaaaaaaag aaccacaaaa caaaaacaaa 300  
 ccaccaacaa acccaaaaca gacaaaaaca caaacaaacc aaaaacacac accccaacaa 360  
 caaaacaaac cagaacg 377

<210> 19720  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19720

agcttgcttg tggtttcttt attaagggtg gatctctgag ctgtaatgag gtccttcaat 60  
 gatgattttc cacgatggag atgcagcggg agacaaagga gaagaggtga gaggaggcgc 120  
 catccacaag ggaataagcc atggaagaag gagcttcacc accaagatga gccttgata 180  
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240  
 ggagcacgaa attgaaggaa gaaaaaggga gagaagttga actttgagtt gtgtctcaca 300  
 agactctcat tcatcanagt tacaacaagt gttacacatg cttctattta tagactangt 360  
 agcttccttg agaagctntc ttaagaaaac atccttgaga agcttctttg a 411

<210> 19721  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19721

gtaggcctag gatcttcttc atcaatggat tcctttgctt cttggaagat gtatggcagc 60  
 gtaatggaga aggaagagag agaggagacg ccacttcaag gagaagatga gtctagaaga 120  
 agctcaccac cataggaggc catgaataag agcttgaggg aagaagaaga tgaatgaagg 180  
 gagaggaaga gaagagcacg aaattttgtg ctctaaaaga gctataaaat ctgaagttta 240

at t t t t c a a a t g a t c a a a g t t g a a a a a a t g c a c a c a c a t g g t c t c t a t t t a t a g c c t a a g t 300  
g t c a c a c a a a a t t g g a t g g a a a t t g a a t t t c t a t t c a t a t t t c a c t t g a a t t g a a a t t 360  
a a a t n t g t g g a g c c a a a a t t t c a c t a a t t a t g a t t a g t g a a t t t a g c t a t g g t t c a g c c 420  
c a c t a a t c c a a g a t c a a g t c c a a g a a t c t c c a c t a 455

<210> 19722  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 19722  
a g c t c a g c t t t c a t t a t c c t t g t t t t t c t t a a a t c t c c a t g g c a t a c t t c c t t g t c t t t 60  
t c t t a a a t t t c c a t g g c a t a c c t a c c a a c a a g c t t a g c a c t c a t t a a c c t t g g t g g a g t c 120  
a g c c a a g a t c t t t t a t t a a a a a t g g t g a c a a a a a t c c t c c t t g a c t t g a g t g a a g c c a c 180  
c g a t c a c t a c a t g t a a t g a c a a t g t t g t c g a c a c t c a g c a t a g a t a a t g a a g t a a a t g c a 240  
c c c a a t a g c g a g g t g g c g a t a t a t a a t g a g g t a a c t a t c c t c a c t c t g a g t c a t a c c a a a 300  
c t a t t g a a c a a t g g t g c t a a g t c t a c a a a t a c a t g c t c t a g a g a t t g t t t a a g a c c a c t t 360  
a t c a t a a t a t c c t g t g a a g a c t a c c a a a a a g t t g t g a a g a c c a t a a t t a c c c t a t g t a c a 420  
t t a t t a 426

<210> 19723  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 19723  
t a g a c t a a t a t c a t g t t t a t t a g a c a c g g a a t g g t a t c a c c t c t a t c a t a c t a t a t c g t a 60  
c g t t a t g t a t g c c a c t c a a a a c g a c a t g t a t t t c a a a t g c c a a g c g a a c t c t g a t a c t t c 120  
g a t c c a t g a a a g t c a t t t t c t a a g c c g c c g t c a a g c t a t c a g t t c c a t a t a g a t t a c a g c 180  
t c c a t c a a g c t g c g t t t c a a t a a t t c t a c a c a t a c t t t t g c a a a t a a t a t g t c t t a a 240  
c t t a c a c c a a c c a c a c c a c t a c a t a t t c a a t t a c g a a c c g c a t a t a t a t a a t c t c g t t a 300  
c a c g c a t c a t t a t g a t t c a c t a t a c a c a c c 330

<210> 19724  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 19724

agcttttcatt gttgttctac taatattggt aattgatgac cgtgatgcat gtttgtgcca 60  
 gatcattgac aatgtttcat aatgcagaat aatttattct tttgcagcat tgtgattttt 120  
 caatcacact tggatttgga taggttccaa ttaaggcaaa aattattata tttgcttgat 180  
 caactaaaat gttctttgta catatttttc tgtgtatata atattaattt atgtatatct 240  
 aatttttaat atttctgtta tttattgtta ttgtattttt ttaattatca tgtgatgtct 300  
 tgggttttat ttgttaggtt tttttatcat tctaatacaca ttggtgatga tgtaattta 360  
 actgtgattc tattcttctg accttgctat gaaatgatat taaagatgta c 411

<210> 19725  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19725

tgtaactcaa taattttagt tgaaattggt gaatttacgc atgcaatctt aattctcaac 60  
 aactnnttg gatgagtctt ccaaggattg tggtgccttc tctaactttc cttccttttc 120  
 cagtgataag gtaaagctac aaaatcgagt ctcccaattg ttgatataag ttttgtaaga 180  
 ccatctttta ttcgaacaag tggcttanag gtgtaaagtc acaatccttc caagcgagca 240  
 actcaaagg gtaacgccat cttaaaattt cgtatgagca tcttcaatga aaatggaaga 300  
 cttgaacgaa aatggttggc tcgctcctca ttgctctggg aatagataac gatctatata 360  
 atgagcaciaa tgtatgaatg atggaaaaac tccaatttat gtcacccag gttaagactt 420  
 gtagttcaca ctaatcaatg actaagaaac aagaac 456

<210> 19726  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19726





ttctgtttca ttgattattg tttagtgttt taaatatttg acgcggacat ctctgaataa 180  
aattgtgtta cttataaaaa tgaagaaaaa ataaaatcat gcacgggaat caattgatac 240  
ataattgtta tattttaact aatgatctca agtcaaatat ctaattatat taaataactca 300  
cgtgagattn ttgttattnt taataatctt acctgactca nacaagtaag attagatnta 360  
atgaaaaata tanatgattc ttactaaaga aaaattataa tggtttaaatt gttattcgat 420  
tt 422

<210> 19729  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 19729

gaagaatgag tggcggaact gaccgcatat atgatggaca aggagacaat gctggcttgc 60  
atatcttgag agaacgaaac gctgaaatcg gagatgaaca actgcagcaa agcaagggag 120  
gaagatgctg ctgaagtata gcacgtgagg gcacgggaac gcgaggctct catgaaactc 180  
gggattgtga tggaggaggc agataagaac aacaagaatg ctgcaagagt ggctgagcag 240  
ctggaggcaa cacatgccgc gaactcagaa atggaagcag aactgagaag actgaatgtg 300  
cagtctgac agtggaggaa tgctgcagag gcactgctg ttatgatata aacagggaa 360  
aacaatggga 370

<210> 19730  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19730

agctntatat tcaaaatatt tattttggat ggtcaacata atgtggcaat caaatcgttg 60  
ttgtcattaa ggttgcctc tctcccccga gatagcagcc agaataagaa ataaattcat 120  
gaaaaagcaa gcatggaccg acaaattctt acgtactctc tagtctatat agcatggatt 180  
ccaattttat tttatttttt aaaataaaaag ttttttagtat tggacaaact atggagtgtg 240  
gaccaattat tagaatttta tgacctacta gtatatatat catccacgct tttgactaac 300



<211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19733

tatgaaatat tngtataaag atatggtcta aacactttat tgtctaaagt ggtggaattc 60  
 tcctttaatt tatgtttcat accacatgag tatgtttgca aataggaatg ttcaatatca 120  
 attaaagagc tctaaccaag aacatgggaa aatcaatcat tataatcacc acacatccac 180  
 cattacaagc atgtaagtct tcctttgcgc cgaacacaat tcatatgaag aactgcacac 240  
 aacatctatg ttgattcaat caaattaatt aacctacaca atagatgtta ctttggaat 300  
 atgctatgtc aattaatcca accaaaaata ctagacaatt tagttaaatt taaatttaca 360  
 catattttac atatatatac aaaatcccat aatggcatat ctatatcant cctagaaatc 420  
 ac 422

<210> 19734  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19734

agcttccttt atctgtttta ctttngaaat nntaaccata gattgctaaa gtagaattag 60  
 gcataagtgg caactttgct tttaacaaaa gaagtaaate tctagctagt aagcatagat 120  
 aatggtgcta attatacaaaa tcatagagta atccaaatta atcatgctta aagtaaatat 180  
 acacaatgta aatctacatt gtctaattctt gcaacgtgta attttacacc gtgtagaaat 240  
 caggttctaa tgaaattcta attttacta aatttatcac atgaaatagc atgcatataa 300  
 tcggaatttt aattgggttac ttgaattaaa tcttccttat aattactttt aataccaatt 360  
 atatntccac agatcaccca aactcaatac tttctgtaat 400

<210> 19735  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19735

tgccctgtccg atgcagcagt aatgatgttc gagttatggt tgtggaacgg ctacgaaccc 60  
 gggatggggtt tatgcaaaga caacgggtgac ataactagcc tgataaatgc caaaggaaat 120  
 cgtgggaagt atggggttatg ctataagccc actcaggcag atataaagag aagcatcgtg 180  
 ggaaggaaga gcggtagtca aaactcgcgg ttgagacaag aaggtgaagg aagccccacc 240  
 tgccacataa gtaggagctt tataagcgcg ggtctggggg acgaatgtca agtggtcgcg 300  
 atatacgaag atggcggttct gactacattg gacttggtac gaccatgcc tcttgatttc 360  
 caactgggaa attggcgagt ggaagaatgc ntccgcattt acgcgacatg cataatgtaa 420  
 ctcttacgg 429

<210> 19736  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19736

agtcttattt tcttccccag ggggtagaag aaatatgtca tacgtttcct ctttggtttc 60  
 agtatgctct gcagcaataa ttgccttgat ttgatcaact gtcacagctc ttgctgacta 120  
 aaatggtaga aacaatcaac acaatgcac atcaaaaaga cacttgaaaa tataaagaat 180  
 cttactatga tagcatagca tagggtcacc ttcaatatgt aagtgggatt ctggaatcca 240  
 gagaatggat taaacttggt aataattctt agatgagctg ttgtgagatc tggctcaata 300  
 aaagctctat acataggata cacctgcaaa aggaacaaaa acaatagtta aaaattatag 360  
 cagggtgcctt agtcttacag atgcaagtgt tcataagtcc tanaaaaatt ataacatga 419

<210> 19737  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19737

ttagttattn taatcttaag ttgaccttga catcatctat tgtccaatat tgctaaagnt 60  
 ggactaggtg atcaatgtat aacaagagag agagaagaaa gagagtggag gagagaatat 120  
 tcaaaaataa aaaataattt aatttttaaa atatattaat tgtgtgaatg gattgaatat 180

ctatacataa aaactatata tggatgaatt tgaatagatt ttattaaatg aatcatggat 240  
gaattgaatn ttttaaataa actttggtaa atctaaataa attaatagat tattttaatc 300  
catttattca atttgattat taataatgaa ttaatttagt ctaattntca acccaactca 360  
attataccgt cgagttaggt taangttacc ttatnttatt nttgtaatca actcaattca 420  
ac 422

<210> 19738  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19738

catgttgnc tggtttttaa tttcgagcgt ctcgatatat gacgggactt aatcggactt 60  
ccgagtaaaa tggtattgtc gctcgacttt gctacgagct tcggttttaa aattcgagcg 120  
tcacgatata ttacgggact caatcagact tccgagtga atgttattgt cgttcgaatt 180  
tgctacgagc ttcggtttta aaattcgagc gtctcgatat attacgggac tcaataggac 240  
ttcccagtga aatggatttg tcgttcgact ttgctacgag cttcggttnt aaaattcgag 300  
cgtcacgata tattacggga ctcaatcaga cttccgagtg aaatgttatt ggccgctcga 360  
tttgctacga gtttcggttt aaaattcgag cgtctcgata ta 402

<210> 19739  
<211> 365  
<212> DNA  
<213> Glycine max

<400> 19739

atatatcgac gtgctcgaaa ttcaaaccga agctcctaag caattcgaac gaccataact 60  
ttgactctga agtccgattg agtccccgca tatatcgaga cgctcgaaat ttaataccga 120  
agctcggcga aaattaaaag acaataactt tgtactcgga tgtccgattg agtgccgtaa 180  
catatcgaga cgctcgaaat ttaaaactga agctcgagaa aattcgaacg acaataactt 240  
ttcactcgga agtcagaatg agtcccgtaa tatatcgaac gtcctcaaatt taaaaccgat 300  
gctcgcggaa attcttacac aataactttt cactcgaagt gcgattgagt cccgcaatat 360

<210> 19740  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<400> 19740

ttagcttata tatatgtaat agtttttgtc tttttttttt tacctttttt ggtagcata 60  
 aacataatct tgttgaatca gaactacttt cggtcggcat cttggaatct tcgttcttgc 120  
 tatattagct gctttttttt tttttttgcc tctcgtccaa gtatttatat tcattattta 180  
 aatcgacact tatgatcgag gcatatttcg ttaactttta tacaaggat gactgatatg 240  
 acaagttact aattgtacat ttctttcgtc ccgaatcttg tatctg 286

<210> 19741  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 19741

cgacactatg aaactcagct ttgacgatat gttagaactg cttttgttgt tacactccaa 60  
 ctggttgaga agcatgccag aaataccgaa gtatttatat gcgtcctcag ggtctatata 120  
 tcagtttgaa ggagaagtaa gcttttttca tggcactgct ctttatgttt tttctcttgg 180  
 ctttgagaaa atactaagta tttgaattct tcagaggcaa gatccttgaa gtactgaaaa 240  
 actggccaga aaagagtatt caagttattg ttgcgactga tggtgagcgt atattaggac 300  
 ttggagatct tggttgccaa gaaaaatata gtgttagtct cctatatctg cattacacac 360  
 agagacatta gagtaacata attttt 386

<210> 19742  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<400> 19742

ggggattatc cacttcccac aaaagtattg ccaccacttt ccacaacttc gatataattc 60  
 agcgtacgat atattacggg accatcagac ttcagtgaaa gcattgtcgt caaatgctac 120

agcttcgttt aaatcagcgg cgaatatacc ggaccataga ttccaggaag gattgccgtt 180  
 cacttgctca cctcgggttaa attagcgcgc aatttacgac tcataactcc aaggatgtat 240  
 gccccaatac acgacctggc taaatgacgc caatatac 278

<210> 19743  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19743

cttgttctat ttaaattcct aggatcatga gcaactatgt gtgtcctact atgacttgag 60  
 aaacaaagat gatcaaataa caagcaaaga tttaaaaggt actaggttgc ctccntagtag 120  
 cgcttcttta acgtcttgag ctggacgcgt gatgacttgt cggccacgga cctagtactt 180  
 tgcttacctt tggctttgga cttggtcgcc tgctggtcga ccacgggtcg taggcaacgc 240  
 tccagccttt gtagatgagc tgagggactc tggaggtggc ggcgatgcgt ctattgcccg 300  
 ctgccggcca tccccaaagt actgtggtgt ctgccttgc gcctgcctgn gggcgagta 360  
 cttcttgatg aaagctcggg tagtaggggg cctgatgacc ttgatgtggg cgacgggcac 420  
 tccgtagaac tgacagaggc ccgtaatca 449

<210> 19744  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 19744

agctttcaat gaactcttgc tccaaaaaat tgttattcga tccaattcaa aaatcttaca 60  
 aaatgggtcca tcaataagca tgtgaaatct aacaaaataa caagttaagg agaacaaact 120  
 acaacttaat aacttacatc ataaaaggca taaacaaagt cctaaataag agaaaagatt 180  
 agataatfff cttaaattcac atgtctcagt taagtatfff tggcaattat taactcccc 240  
 aactttagaa atttttttgt cctcaagaaa aagtaaacac attgttaaata gaaaactact 300  
 agtgctaaga ctaaaatatt gacatgagtt gagatcaatt ccatacctaac atatccaaca 360  
 cttgtattgt ccagaaccaa ggtcataaaa aaggaatggg acaaggactt aattattctc 420  
 agtgatgtca ttg 433



<210> 19745  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19745  
  
 aaggtccaat gccttaacag ttttttttac tcttgggggt taaaatgaac ctttcaaaag 60  
 tttaaaatca actttacgcg taactttatc gcttttttaa gaactatata ggtctgagtt 120  
 cctcttcgca cttgaggata cgtaggagca agggatcatgc tcttgctcgac cccaaaagat 180  
 aaaaaacaca aaaaagggaa aaataaataa atattgaagt catgattttg cacacttgat 240  
 taaaggtcgc cgtcccttgt gacggacgaa tagggtgcta atacctttcc ggcattgtaa 300  
 caactcttga acctttattc ttaaaattcg cagaccctt tntagttttt ctaacgttnt 360  
 cctcgaataa acattggtgg cgactccgc atgtcttct tctttggatg acgcacc 417

<210> 19746  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19746  
  
 agcttagcta ttggtctgag agatcccatg accttctaaa cccacaata gaatcccata 60  
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 cattgcggct atatgtttta ttgatgttaa agaacacatt ttacattgat atccatttga 180  
 aaggtaataa aatgcattgc ctatctccgg gagaaccaac ccagtcagca tctgagtatc 240  
 caactacctg agcatgtccc ctatcttcat aaataaggac ttagccagga gccttcttaa 300  
 tgtatttcac ccagtgtct tggcagggag agtttatgaa ctgacttacc acactcactg 360  
 caaaggcaat atttgggcaa ctgatcatga cataattcaa ctttccaact aa 412

<210> 19747  
 <211> 351  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19747



eggccagctc ggtgtgcata gtgaattgaa tctgtcggta agtctagatt aaccacaaga 360  
 tcacattctg ccacatccaa accccttgct gataattcat tcgtaaccag aactctcacc 420  
 tcaccattct tgaatgtctt cagagttggt gacct 455

<210> 19750  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19750

agcttcactg tttattatag tatgtacaaa agagttgcag tattcaactg cactcttagt 60  
 taaagggagt tagttaaag atagtttga agcttggttag tcttcctagt tagttcaaag 120  
 ttagctacaa acagtttcag taactgtttt atatatatat atatatatct ttgtaacaca 180  
 atattcactg gccaaatata tttttccttt cttgattctt gagttttcct ctctctcaaa 240  
 ctctctctaa tcttctttta tgatactggt tagtttctaa taatgtttat taatgataaa 300  
 aaagtgtcc atgcaccca tcagatttgt cctttgggtct tcttccanaa tgcttcaatt 360  
 ccagcccana atagctattg ggccaatggg cccaagtatg gacacttcag cacctttntc 420  
 tttacat 427

<210> 19751  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19751

ttacgcgacc ttagaatcct aagcnttcta atgtcttggt agagtcgtgg ccttcttcag 60  
 tttgtcatct ttagtgtctt catagnntat gctcaataag ttccaaacct ctttagcagt 120  
 tctcagtctg taaatcttgc tgtaatcatt ctttgatagg gcacatgtta gagtatatct 180  
 tgcttttggt ttaagttcca taataaccag atcatcatct gtccattcat cttcaggttt 240  
 atgaataggg atatccctat tggtaatcat gagctagatt tcatactggg tggacttgat 300  
 gtacatctcc attatgtcct tctagtaagg gtagttntct tcagcgaagc ctgggtggcct 360  
 agtgagagat gctcccttag tgataaactt gtgttggtta tctaccattt ggatcttttc 420

ctctanacac tattaaatgc tcaacccttg gagactgagc ttgatacca actgt 475

<210> 19752  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19752

gcgcacgcaa gtcttgagta tattncttct gtgacattct agaacagtca ccaaacttag 60  
tactagacag tcattcttcac cttatatcag aaccagcaac tgctaggtag gaccactgt 120  
ggcgaactc cactgcaaga cacacagaat gaagatgaag gccttttgaa atatgtacaa 180  
cttcttaacc agtatatata aatatagggt atattgccat caagtgaaaa tgaataccgg 240  
agctcgttg tgtttccgaa tcatatggag caaaattcct gaagttcttc agtttacgta 300  
gatcccatag cttaacacca tcatgagcag cagtctgtca aatctaagag tacaataaga 360  
atactgtata aacaatcatc atactttact agttacattg tctcacatac cgcaaggaag 420  
tatccattct ca 432

<210> 19753  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 19753

agcttgcatc atatgctatc gacaataaca ttctactcgg aagtccgatt gagtcccgta 60  
atatatcgag acactcgaaa tttaaaaccg aagctcgctg cagacgctaa cgacaataac 120  
atttactcgg gaagtccgat tgagtcccg aatatatcga gacgctcgaa atttaaaacc 180  
gaagctcgta gcaaattcta acgacaataa catttactc ggaagtccga ttgagtcccg 240  
taatatatcg agacgctcag aattttaaacc cgaagctcgc agcaaagct aacgacaata 300  
acatttact cggaagttcg atggagtccc gtaatatatc gagacgctcg aaattaaacc 360  
cgaagctcgc agcacatgct aacgacaata acatttact c 401

<210> 19754  
<211> 415  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19754

gagcgtctcg atatgttacg ggactttcttc ggacttccga gtgaattggt attgtcattc 60  
gaatttgcta cgagcttcgg ttttaaattt cgagcgtctc gatttattag gactcaatcg 120  
gacttccgag tgaaaagtta ttggcgntcg aatttgctac gatcttcggt ttgaaatttc 180  
gagcgtctca ttatgttacg ggacttaatc ggacttccga gtgaaaagtt attgtcgttt 240  
gaaattgcta cgatcttcga ttttaaattt cgaggggtctc aatatgttac gggactcaat 300  
cggacttccg agtgacaagt tattgtcggt cgaatttgct accagcttct attntaaatt 360  
tcgagcgtct cgatatatta cgcgactcac tcggaatttc gagtgaaaag ttatt 415

<210> 19755

<211> 376

<212> DNA

<213> Glycine max

<400> 19755

agcttgtagg ttagcttgca ggaatccttc gaattggcca atttcacttg gtgctacaaa 60  
gcagtgacac tagtcgcaga ggtaagggag gactaatatt tcaaaacatc atccctcacc 120  
cactcatagc aagcaatagc aggggggacg atagtgaccc aacacactat ggctacgcca 180  
cactcggggg gaagccttaa cgtccctgcc accacttctc cttgcttttc tagaaataga 240  
agggggaaga atcgtgggta ctggaacggg ttccctgttt agagaagaag tcaaaggctg 300  
cgccaacacg gtgtgagacc gtcaacctct ccaaggaaga ggactcgcta tcagaaaccc 360  
tttggcgagt ctcctc 376

<210> 19756

<211> 242

<212> DNA

<213> Glycine max

<400> 19756

tatttaattc cataagccca actccttctc aaggaaataa tccaaccaga atttcaataa 60  
cctaaaatgt tcacaaccac aaaatattcc agactggaac acaagaaaaa taagccaagt 120  
tcttatcata attatggaaa ttctaagaaa ctaaaaagcc aaatacacgg cttataaaag 180



<213> Glycine max

<400> 19759

agtcttcttt tctattttgc tataaatagg ggaagaagtg aagaagaaaa gggttcagcc 60  
ccttatgcac ttctctctct ctggaatttg ctgaggaaaa ttatttccgt gaagaaaatc 120  
caagccgagg cgcttccgta acgtttccgt gagtaattac gcgaagattc tcgaccgttc 180  
ttcaagatcc atcggtcggt cttcgttttc ttcagtctac aacgggtaag tacctcaaac 240  
caagcttttc aattcggtct atgtaccgtt ggtgggtccac attatgttgc atgtattttt 300  
attcttgtgc tcgtcaactt ttataacccc ttgtgacgtg cttaagccat ttatttaagt 360  
catttctcgc ttaatctacc aataaaataa atttccatcg atc 403

<210> 19760

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19760

tctcggtcca tgctgggaac gcctctattc taacaccgtt tcagcctaag gcaccacccc 60  
agagggaagc tcccccaagtt ccaactccga acacggctcg accggccggt aattccaaca 120  
cgacaaggaa cttccctcca aggccattgc cggaattcac cccgctcccc atgacgtacg 180  
aagatcttct accatccctc atcgccaatc atttggccgt ggtaactccc ggaagggtcc 240  
tcgaaccccc ttccccaag tggtatgacc ctaatgcaac tngcaagtac catgggggtg 300  
ccccggggca ttccgtcgaa aaatgcttgg cccttaaata caaggtccaa catctaattg 360  
atgccggatg gctgactnct caagaggatc ggcccaatgt gaggaccaac ccgctcgcca 420  
atcatggagg gggagcagtt aatg 444

<210> 19761

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19761

ttagcttaag taatgccagg gatacaccac ttccctttta gggtagttag tttgggatat 60

gattcataac cctgaaaagt tgtgggtcca aatcattcag agcaaatatt gcagtgccat 120  
 tcgctttttg aacatggaga aaccgaaagg atttcccacg tagctttcca tgattaaagc 180  
 taaggaattg ctcacagagg gtttttagctt tcacattggt tcgaaggaaa gttccttttg 240  
 gtttgaagct tggactaatg acgagccact ntgcaacaaa gtcacctatg tgaatatcca 300  
 ggatataaac ctaagattaa tgaggtttat agggacaata gctggagggt tgatgagctt 360  
 gcaactgtta tcccagacta aaccaaacaa caaatttggt ctttc 405

<210> 19762  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19762

agcacggatg nngttgaaac ccnttggata gangcgattg ttgatcacn ctagacatnc 60  
 cngagacgcc atacaatact cactnata tcctaaggat ttacctagga tgttgtgatc 120  
 tgatttccgt gaagagcctt gagtccttt catgtgcgaa ctctactgc cttaatggaa 180  
 ccatgaatca cattcctaag aatttggagc ttggaattgc gctgagaata aaagcggagg 240  
 gttnttcgat tcaattggat aacatcagga tgatggctat gcctcatgag gtaatctggg 300  
 ccatacttga tggacagcgt atataggttt aatgatgcac atgctgactg agacgatgga 360  
 tcataaacgc tatagcagta agcaagctaa atgagatcat cgataattac atgcaatcca 420  
 ggtgagtga taccgatctt aatggcacat gagcgatgaa accgttggtc tactcttatg 480  
 ggtaaacata ctcttactct ttct 504

<210> 19763  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19763

ttagctntnt tttcttatgt tctctaacc acaagcattt gaggtcctg ctacatcggt 60  
 catttgttct tgcaacatta tgacaggta tcgaaggtag acacattcaa gaagcaagac 120  
 atttgagata taggtatctt tttcctcctt atactctagt aaaagtatct cttcatcaaa 180



gttgtagctt gctatctcat acacaagtct tattttttga tgatgcaaag ccattctcag 240  
 ttgcctactt ctctggcttt catgggtntg gtgtcaaaaa tttatttggt gtaatagtgc 300  
 atacaatttt aanggttttag cacttaaaat ttcttcctca tatga 345

<210> 19764  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19764

gacctataaa actcagcttc agatctatcc ataattggag attgcatctt cctcaataag 60  
 gtattaacaa tttgtcttct attctagtga cactttgttt agaagaaaga ggggagaaaa 120  
 cttttataaa cttcaaactt ttcttgcatc aaatatctcc taaaactaaa cattttattat 180  
 tttgaaaaac taaaaacatg tttaattaaa aaataaaata caagataagc tttaaanttt 240  
 tttttttttt ttaactctgt tcacttttat tctatctccc ctagtctaaa actacttttc 300  
 ccatgtaacg gggtttctatt tgcttccagg atagggttta tttaatgcat tcaattgagc 360  
 ccgtattcct tcatgaaaat gtctttcaaa agaagaaaat tatataagga atanaacgaa 420  
 atctatagta g 431

<210> 19765  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19765

acacatgcgt tgagcccttg annccntgaa ntnncaccaa atcccgggac cctcagagac 60  
 gacctgtacg cgcgccagca ccatttatga ncatttttaa ccccagcca cggggagatg 120  
 taggtgagtt gtataaacta acttccaccg caaccagcgt atggatcatc tacgacaact 180  
 accggaccag aatagcctct gcggggcaac taaaactat gtgaatcatg ccctaacaaa 240  
 caccgatata gcctggatga gccggtcgtc cataaatacc ttatcaaata caccggggca 300  
 tctgcgcctt tcacgaacgg gctaggtgaa gacagataag cgtggagcgt ctatcacacc 360  
 ctgtatctaa taaaacacca ctttacaat gtggaaactc ttcagggacg gagacatgtg 420

cccgctagca cccaactata tcgaaactat cctgacacaa gcgggccacc tacgcc 476

<210> 19766  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 19766

gcgcttagcg gcaccaactc ttcaaaaatt tctaagtgtg ttttgagctt atctagttaa 60  
gctcgcttag ctcagcggac gctgcaacca attgtgcttg gctcaggaat gctcggctta 120  
gtgcataact atcaccaaaa aaatgggtta agttacctgg gcttagcgat tcagcctcgc 180  
ttagccaaaa gtagttcagc atgaggatga gtgttcaccc tcaaaggatg aactctctta 240  
gcgcggtaag catgcttagc gagttcttta gataaacactt acatacaatg agtattgatg 300  
aactcgctta gtgcagcatg ctcgcttagc gagctcatcg cgttttccag acaacgcaga 360  
atatacagct cgttttctag cacttttcaa gcctctaaaa ggcatatcac acatgcaatg 420  
tgtgcgcat actcaattca gtat 444

<210> 19767  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 19767

agctcgcttg atatgatga cttttttata accaaggaag atattcttgg ctttccatgc 60  
ttccaggcga ttttttgtct aaatacttaa ctttatatat aatagaaaga acaaacgata 120  
taataagaat aataagatga atgaatataa gaattaaaat acgagatgca tatatttata 180  
cattgagatg ccgacagata cgacgaagag acatactgta atttctctct atgcctcaat 240  
gacaaatata tatcacttag tagtggtttt ctgccacata cctgtgtgtg gggcaagcta 300  
accatccttt ctacattcaa caaaacattc 330

<210> 19768  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 19768

tatgagacca aaacatgaca aagaacgttt ccaacaatct atttctcatg cttttctagt 60  
 aaatcttgtc caaaacacaa acgaattata cataaattct tctcacaaca tggggagtca 120  
 aatccctcaa acaatttcac ataatcatat tataatcaaa ggaatcaaaa tgggttcaaaa 180  
 acacaaaaca ccaagagcac tcaattttat caaccaattc gcattaaggc atcaattggt 240  
 tcgtcaaaca taacaatctc atgattacaa tcataaagggt agaattacaa tacaataaat 300  
 atcccaaaat aaatcccaat ttgatcctct aaggatcccc acacatgttc tttctaattcc 360  
 caattgtgat aaactcatcc cttacctcta agaaggctca catgtgtagt ttgacaatga 420  
 tagtatcatc tctagtgggt ccctaagatt cctcaag 457

<210> 19769  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19769

agcttcattg tgatcttttt ctattgtaga aattgatcac tcccactaat caagtcattc 60  
 tcaagaaatt ntgcgtttct tgattcgaca accctagtgc tatgtgatgg acaatagaat 120  
 ctataccctt tggactttnt agcatatcca atgaaatacc cactaatagt ctttgggtct 180  
 agtttcttct cttgtggatt ataaactctc acttcagatg ggaatcccca agcgcatata 240  
 tgtegcanae tcggtttcca acctttgaat aactagaaag gtgtctttta gacagccttg 300  
 gttggaaccc ggtttaatat atatacaacc gtctttaatg cttcaatcca caagaattga 360  
 ggaagtnttt tattacttct catactttnt atcatgtcca ttaaagttcg gtttcttctt 420  
 t 421

<210> 19770  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19770

agcaactcan aatctaggta tctaaaaccc ctcaatttag cggattttca aggtttttaga 60  
 agagaaaatg aggatgggggt aaacttggag caaactctca tctcaaaca gtctatatca 120

tcaatctaaa ctcgctcaaa ccggttttac gacgaaaact ctaccgaatc aaaatttgac 180  
tcttcaacac ccaattttac cctagaaatg gctcttggtt tcactttggt cactcatatt 240  
cctcatttgc acagtctaag ctttctcata agtcctaaat gacatttcaa actaggatta 300  
actcccttta acctccaaat accactaaat ccagatttgg ctttctaact ctgagagcct 360  
gactctnttt ccactcataa caccacattc tcactttcta accctagggt aactctaccc 420  
ttcatctcta gtagttttcc ata 443

<210> 19771  
<211> 425  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19771

agcttatatt ttgttaattt taattaacgg aaaagtatta tatataccac aatcttttaa 60  
tcttcaaaat tccaatatct ataagtaaag cccacatttt ctggaaatca cacctaagat 120  
atTTTTTTTT tgtcatgagt tagacattt tgggtgtttc caattcattg aatcatatat 180  
taatcatact cttaatgtgt gaatattgtt agttcaagaa aattttacgc tcgaagaana 240  
tgaaatacaa aattgttttag agtttcaaga aaattccatt atcgtgataa aaaaaagcc 300  
taaaatttaa cttttatgtg acatatataa acatactaaa aaaacaacta aatacaatnt 360  
tgtnttggtg ttgaatacat caagatacaa acaaactage attcatccat agactgaaat 420  
gcatc 425

<210> 19772  
<211> 443  
<212> DNA  
<213> Glycine max  
<400> 19772

gcttctaatt tctattgtta gacaaaaatc caattattaa catttaagcc attaattagt 60  
tgaccattat ttgactagag aattttctct aaattatcct tattctggct agactttacc 120  
ttaaaaaatt atgagcttaa ccattcatag atattctatt gtaacatctc attttctagt 180  
ttaaaaacac tatccaatca cacaacaaac aaaaatattg tctaccacat agacatgaaa 240  
aattgggatg ttacagagtt tctctctttt ttttttcctt taaccaccaa gttaatccta 300

[illegible]

<400> 19773

<210>	19774
<211>	421
<212>	DNA
<213>	Glycine max

agcttcttgt	tgatcaagtt	gatccgcaag	ctagttacag	atgaagttga	tctgtataaa	60
tcaacttcat	ccgtaaccag	cttatggatc	atctacgtca	actacggatc	aaatatagct	120
tctgcgggtc	aacaaaaacc	tatgtgaatc	atgccatagc	atacgcggat	caagctgaat	180
gagccgggtg	cacaaaaata	ttttaaaaat	acacgnggt	atTTTTgtct	tttcatgtag	240
ggtgttaggt	gcaccagcaa	taatgctggg	tgctcctagc	aacacccttc	atcaaaatat	300
aacatccact	ttacaaagtt	tgtaagcctt	ttcagggcta	cggttccctt	gttacccggt	360
tacaacacca	aattcatatc	aatatgctaa	tcttgtacca	aaatgtttgt	ctctacttat	420
t						421

<210> 19775  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19775

tctagcgtac ccgctatnngg tgctcataan atcccaaatt caaatccctc ttattactag 60  
 ctatstttgaa ttcttttagtt cctgaatgta caaccttcaa attgttactc gttcccgat 120  
 ttgttttctg caaaaaagaa aattaatctg aaacaattca ggctgaattg ttatcggtat 180  
 tattactcga accataagga ataacagcta aacaagtaat ttaaaatgta actttttaaat 240  
 tatgtggtat ttttttaatt acaattttac ttcaatatct aattttgtta atctacttag 300  
 gtcgttggtt aaatataaat atgaatttaa aggtgatcta ctgataatat aaagtacttg 360  
 ctaatcacia attatgatac ctatcattnt caattntaac ttaattntat aaatattaat 420  
 aaatgtataa taa 433

<210> 19776  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19776

agcttgctta ctataccttc taccgaacac ggccgtgctt ctgtctaggc ccggattcaa 60  
 ggccgggttg agcaccggct ccgcttcctt aactgtactg gaggcgggtg cggtggcttt 120  
 atcctctatg gttttctgga gttttaacat gacctccgag atggaagcca ttttatcttt 180  
 caaggccgat agatcggcct tcactctgtc ctgcacgccc tcttcattat ccatttttct 240  
 agatcgagtg ttataggggt gccttggtgt tttcttagtt atgatgaaat tcctaaagaa 300  
 ataaacaacg gtgagtatgc caccaaaaca tgagtatgca aatggatgat cggagcactt 360  
 ggatccaccc caagattntt agataacgta atgagtccag aactttctca ttntataaaa 420

<210> 19777  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 19777

ntgtacggcc ttaagcaggc ccccaaacia tggtttgaat tactgcaatc tactatcttc 60  
aagccctttg tgatgcaaac tgggcatcaa atgttgatca ctgaagggtga atttcaagtt 120  
ttgccatata tttgggccct tatcatatat cttggtggac ctgcaagatc aagtgcaaag 180  
gcaaaatata gtagtttggc ataaactact atagaattat cctggattga gaccatgttt 240  
aatgagttgt aagtttcctt caacacactc attgtattat gtgacaacca aagtgttggt 300  
gctcttgccc actaaagtta gttattgaca actgttgaca cctaactcaa tagattggta 360  
acacaaaaat tagtacccta agaataaaag aatattntaa tntggtattt gttcaatgaa 420  
agagtaaaat atag 434

<210> 19778  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 19778  
agttttatat ttcaatttcg agcgtctcaa tagattacgg gactcaatca gacatccgag 60  
caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatcgtctcg 120  
atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt ogaatttggt 180  
gagagcttca acattcaatt tcgagcgtct cgatgtttta tgggacttaa tcagacatcc 240  
gagtaaaaag ttattgccgt ttgaatatgc tgagagcttc aacattcaat ttcgagcatc 300  
tcgatatatt acgggactca atcagacatc cgagtaaaaa gttatcgctg tttgaatttg 360  
gtcagagctt caacattcaa tttggagcgt atacatatat t 401

<210> 19779  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 19779  
tctggaagga gatcaacttg atgttctatg cctcttgatt gtggtagtcc atgaggaatc 60  
tccataggaa agacatttct aaattcctgc aataagggtt gaacactagg agaaatagaa 120  
atagtaaact cattagaatt atgagtagaa attttactgt ctttgcaata ctgtagattg 180

agtggttcat gagcaggtaa ctttttctc acttcactcg cctctgcaaa ataattaaat 240  
 tttctctcat gtgtatcact ctttttctcg ggtgtatcac tctttttcat attccttttg 300  
 ggtgcctcac tattatcttt ctcttggctc ctcttttctc tcattctgat ttgggtcatca 360  
 cacacttctc taggggata 379

<210> 19780  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19780

agtttgcatt atattgtgtt tggntgaa ccttatgagc aagcaatata aattattgag 60  
 aaaagcttgg cagcattcga taaggataac ttgatccct actttggatt tggagatggg 120  
 atctctttaa acaaatttaa cttatggagt gcattatctt gaagttaaga tatggctaaa 180  
 agaacttgca gaaagaatct gatttggaaa ttgacataa aaaatgtgat taagatacaa 240  
 gttgcagacc acatgtcttg ccttgaaaac aaagcactaa agatgaacct ttgcacattt 300  
 aggaaatact tgctaataag caattacttg gtataaaatg acatgcatt 349

<210> 19781  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19781

agcttgtatt cattacttgt tgagaaccat aagccaaagt cgattgttcc tttgatatta 60  
 tgaagaattc attttgcac cttgagatga gtagtcatta gagtctccat gtatcaactg 120  
 atgagtccag tagcatatag aatgtctagt cttgtgcaca tcanatcgta aactaccac 180  
 caaactcttg aactttgtag catccacctt tcctgcttcg tcgaactttg ataacttaat 240  
 tntgcactca atcgggtgtc caattggctt gcaagtatcc atcttgaatt tattgagcat 300  
 ctggtgtgtg acatagccct ttcacactta ggagatggca aagtgtcttt gtgagtgggt 360  
 gatgttgatg gngtgagctc ttgctgaaca tggtgaggtg tcttatcttc ttcaagt 417



<210> 19782  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19782

ntagtgcattg taatccactt atgaatagac cccatcttcc tcataatata aaactagaaa 60  
 tcccacaaac ataatcgat accttctcaa agttaacttt aagcacaagg catgatttct 120  
 tccttctctt agcatcatca accacctcat ttgcaatggc tacactatct aacatatttt 180  
 gctctcccat aaaggcaatt tgcttttcac caataattnt agggagaacc actcttagtc 240  
 ttcttgctaa aaccttagac aaaattttat acaagcaccg gattaaggat ataggcctaa 300  
 agttattaag gccttggtga tcaccccttt ttgagatgag aatgataaac gaaggattnt 360  
 ctcttcttgg aattgctcca ttttcccaaa actcttgcaa catatttata aaatccacct 420  
 tcaatgtagc ccaacatttc ttg 443

<210> 19783  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19783

catgttgctn tatatggcct ccgtgataga agccatttga tcttttaagg tccataggtc 60  
 ggccttcgctc tggtcttgca ctccctcttc attatccatc tttctggatc gagtggtata 120  
 aggggtgcctt tgcgcttttt tagttatggt gagttcccta aagaaacaaa caatgggtgag 180  
 tataccacca aaacatgaat atgctaata atgacagaa cacttggtac cacctcaagg 240  
 ccttttttag ataacatgat gagtttcaga acttctcttt ttataaaaag gaacaaagct 300  
 tttatctagc caagatcata caaaagtgtt acaacagaac gtaacgggtt ctaattatat 360  
 gggccatcaa atctatcatg t 381

<210> 19784  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 19784

tcttatccaa ggctcatctt nggggtgaag ctcttctctt catggcttat tctttaatgg 60  
atggcgctc ctctcacctc ttttcttttg tcttccgctg catctccatg gtggaaaatc 120  
accataaaaag gaccccatg aagctcaaag atccagctc catagaagcc ccacaagcaa 180  
gcttccatca ttttcttctg agggcaaggt ttatggtaaa ttgggatttt ggctcaaggc 240  
ttgtaacacg gctggacatg atatatgtca gggtttgat cggttcaagg gtaaaagggg 300  
atgtcccaca ttatttccat gacacaaatg caacaatgat gatntggaaa ttttatacac 360  
ctatgtggac actcaagtgc canactttta tggcatgtg atgctatggc tcaggattca 420

<210> 19785

<211> 264

<212> DNA

<213> Glycine max

<400> 19785

agcttctctt actctgacat caatggcgga aacagaggat agtggcgctt acctccatgg 60  
tcgacgctcc ctgacggtg gacggtggtt cgtggctcct cttcacggca acaagaagaa 120  
caagaatcaa acgcaagctc ctcttcacgg caacaatggt tcgtggctga ggaagaagaa 180  
gaagaaccaa acgaggaaga agaagaaggt agcgcgagaa agacaggtct aagaggtcac 240  
caacacaata tgaaaatggc tctg 264

<210> 19786

<211> 392

<212> DNA

<213> Glycine max

<400> 19786

tctacttatg tggcttggcg ggcttcttc actttcttgt ctccaatgcg agctttgacc 60  
actgttcttc cttcccgcga tgcttctttt catgtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacggtttc cttgagcatt tatcaggcta gttatgccgc cgttgtcttt 180  
gcctaaaccc atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240  
tgcacggac agacaaggct tgccaaagag ggagtccaca gaggaaatgc tgaccacctc 300  
aaaagactag aaagcagtct ctaacgattc ttctgcggct tccacataag gcatggagga 360

tggggagctt accaagatgt cttcctcgcc tg

392

<210> 19787  
<211> 369  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19787

ccgaggttgg cattgacact tgaaanccca antcacacaa cccaggaccc taaagacctc 60  
aacattttcc ctttttgcca ggaaggggccc ttgggctctt gacgtaagcc cccccccagg 120  
ctggactggg tcgaccggac taaggaccag gattagttag cttaccctta catcggttga 180  
agacaacaat tcaccgaggt agaaacgcac acagctatca cggatgacta acatgaagaa 240  
acacgccatc taaagctcaa ataggaccac gcttctaaaa gactagaatt ctacccaaac 300  
ttaaaggtgc aaagacgacg gaaaaattct ggagcaaaa taaaagcaca taaatacccc 360  
taagccacc 369

<210> 19788  
<211> 486  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19788

gcatgcttga tacctgcttg aacgnatctc ttgaaccctt tanacatgag tganaancct 60  
ctatggcgga tctatacatt cgctcttatg gcgagctttc ccatgcattt gcagcggaag 120  
gcgaaggatc ataggtcatg gtagacacca ttcacagagg aataagccct ggaagatgga 180  
gctttcacc cagactgtg cctccggtaa gaaactcgac gaggaagcct taatggacga 240  
aaagacagat ggaatggggg agtccgaatt tgatcgaata caccacggcg agaagtggaa 300  
cctcgaggtg cgctcataa gactcttatg catctaagt accacaagcg taccatgct 360  
tctatttata gactatgtac ctacttgaaa gcttctagaa atacttcctt gacaacttca 420  
ctgaaaaact ccttgaaagc tcagctagct accacaccac ttaaagctag ccacctctta 480  
taaccn 486

<210> 19789

<211> 387  
 <212> DNA  
 <213> Glycine max

<400> 19789

agcttggttat tctatTTTTat ccaacaact tcacaaatct cacatgcttt caagaaacaa 60  
 cctcttcaat cttccatgtg taccttcaac cctttaaagc atgttaatgt aatgtcaaca 120  
 gaagattatt cttataaaaa acaaaatgtg aaacaagtag gcaattacat gaatgtacct 180  
 attagtgttt gtgtttccaa tatgcataac ccaatcagtc catgcttcta caaacttctc 240  
 cttatgaggc atcaacaatg tatagtaaac atactaaaaa aatactaaaa actatgaaca 300  
 tagtgtcata ccctaatttc gtccggagac cattatttgt tggcatgogg ccttcatttg 360  
 actacctcaa aatgtttaac acccatc 387

<210> 19790  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 19790

tcaatgatag tttatttcca cttttaagca acatattagt accaagcaat gctatcaaac 60  
 acattaggac aaaatacaag agcaaaaata ttacacaatt agcattttga atgtacaaaa 120  
 taaagaaacc aataacaagt aacagggagc agtgcacttg agaagcaact acatttcacg 180  
 agcaacatgt gtatttgttt tatgcagttt taaacaaaat cccattttta aatcattcat 240  
 tagatagttg ttctcaaadc ttattcatcg cctaacttct gaaataaata tcaaataaca 300  
 gggaacaaga actttgataa gtcacaaagc tgattgcac atactcaatt tgagagttct 360  
 caccaaattc agcggcaagc aagttattcc attggctcta gagtcgtcta gccttgatct 420  
 ttggcacgta ccatataat 439

<210> 19791  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19791

agctttaaca acaacctgca aatttcaaga caaacaagag caatgcaaaa attcacaat 60

cgtaaacatt agaaagtttc aaatttgaag ttaacttaaa aatgtattta tagtatacca 120  
aatacaccaa ataaaagtac agacatcgtg caaaacaaga acaagtattt tcaaactttc 180  
aataagacac atatctttat tatgatatgc ttcaaagggt cccaccgggc attcatgttc 240  
aagaaatcaa tgtactcgaa gtaaaaccag taagattgaa agaacatgaa aatgaattag 300  
tgaggattag ctnttagcaa atactacaaa gtacactaac cgtcttcctt gaagtgc aaa 360  
ggactntaat ttcttctcct ttaacctcca agacctcact atctatccaa ggcacatcag 420  
ga 422

<210> 19792  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19792

tatcattcta tctctcanaa agtatgaaag gaagttcaag tgatgcaggt aattcatacc 60  
cctagtagac aaatatttct atcttacctt catgtagaca tctgtatctg gatcaggtgt 120  
aatatttgct tctttttctc ttctgaacac ctctgctagc aaatctgcag aatgtgaaat 180  
aattttagtt aaaacttgat ttttcatatg aattttgggt cgatttccaa attgcagctc 240  
tgtgggctaa ccataaggag gcccaactcc ttggactcat gctgagaagg ccagggtttc 300  
tctgactgtc atttctccaa tatgaagatc attttgactt acaaactcat tcatcccatg 360  
accattataa gtcacctttc cagtgaactg atcaagaagc caaacctaata tagctacaaa 420  
tccaataatg gaaaatatga gcacaaacat cat 453

<210> 19793  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19793

agcttcttac tagtttacgg ctttctggat gtagatgatg atatctatac agatggatct 60  
tatatatcta tatatctata gatagatata tagatataga tatatagata tagatcatac 120  
aatgaagtac cgcacgagtg ggtatatagg aatccaaatc tgccgaatca ctcatgttat 180

gatcttctac atcctaggtc ttcccgttcc ttcactctggc ttatgttctt catgtagcat 240  
 tcagactgaa tgactctatg aaattacgtc gctacttcca catggtacgg gtaacgtatg 300  
 agacatctct atttttcccg gngggaatcc ttagaattac cacagcttag cnttcaattc 360  
 gcctctgacc atcatatgaa atgtgaataa cccgtcct 398

<210> 19794  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<400> 19794

tcaagcttgt gaatttagtt ttgatgcagc aagtgagggg aaacaattct taattgatgt 60  
 ctcaaaaaaa aaagcagcgg attcagtagc acgggctgca ataagagctc ggtgtcatta 120  
 tgttaataaa aagtggctcg gcggtatgtt aacgaatcgg tatactacag aaacacgact 180  
 tcaaaagttc agggacttga gaatgcaaca aaagacgggg agactcaata gtttttcaaa 240  
 aagagatgcc gctatattga agagacattt agctcatttg gaaacatatc ttggcggcat 300  
 taaatatatg acgggggttac ctgatattga ataatcgctg atcaacaaga agaatatatg 360  
 gctcttcgag aatgtataac tttggaaatt ccaacaattc gttcaatcga taaaattgt 420  
 gaccgggacc tcgccgatat ttcaattcca gctaattgatg a 461

<210> 19795  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 19795

agctttgctt aatgagaatc tgttcttcca acaggctgtg caatttggca tctgaagtct 60  
 gggagctctg ggcagatggg tctgctaaag ctagaagtgg ggctgaagta gaagatgcaa 120  
 ggatgccagc tattggtgca aaggaaaagg gaacatcagc tgctctgagc ttgctcttcc 180  
 ttgcctctgg aaaattaact gtttgggtcat tcgcattcca acagttcttt atgatatacg 240  
 ctaagtcaat gaccggtctt aggttcttgt aggaggtaag agcatcagat ccaactcccc 300  
 tcaatctaca caaggctgtg attaaagctg ggaagcctaa gcgagaagag ttagactgag 360  
 ccatcatggt catttgtcca gagatcaaac cgccaatggt catgtccatc cttgtgata 419

<210> 19796  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19796

atgcacggaa aatgtaatta tganattgag atgcccggtt attcaccatt tcctagttaa 60  
 ccttgcatta agtaccatgt tcaattatct tgtttctaag tgaaacgggt ttatgatccc 120  
 aacatgggtg gctcgtgggg cctaacacat gatacttaga atgtagtggt aagtttcacg 180  
 ctttccccct tttgtgtttg tttttagaaa ggaaaacgca aggatgagca aacattgaaa 240  
 caaatggtat ccaattttgc agatacaaaa gtttg 275

<210> 19797  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 19797

agctttgttg tggaaggaag atggaagaaa gaagagggtc gaggagattg gtaaagagga 60  
 tatacatttg aactaaggct tgccacatgg tttgctgaca tggactcaga ttttccatgt 120  
 tatggactaa gacttgccac atagacattt gactaagagg aaattagatt ttaaccgtag 180  
 ggacttattt gcataacaaa tgtaaagatg aggattattt ttttcatttc aataggatag 240  
 agactaatat acaaaatgac tacaaagata gggaccaaaa tgcctattta ctaaaaataa 300  
 aagagaacaa tgtcatgaac tttctaaaac tcttgttctc tccttatctt gtaccaaagc 360  
 tgctctctac tgactccaag ccacaaacac caagctcaca acaccatact cttaag 416

<210> 19798  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19798

tgctccagat ccataaggta atatgcatca agctaagac tggtaaacga gcgcttactg 60  
 ggaggcaacc catctctttn tattttcatt aatcattgca tatagttagg attaacttat 120

ttgtgaattg ttgagtaagt catcagcatg tttagttttg aaaatggggt tgttaaagct 180  
 ctttgaagct gtggatgaaa aataacttag aaaatttttc agtcatccac tgcgtcagcg 240  
 cgccctgtgc gctaagcgaa ttatcattca tgcgctgagc gagtctcaac tgcgctaaag 300  
 tggatcaacc cctacctatt agctgatggg gtctcgctaa gcgagacctg tgcgctaagc 360  
 ccaaaaacct ctctgaaatt gcatttaatg gaattagggt aagcaagtct tctttctaag 420  
 cgcacaacat tgtctcgct 439

<210> 19799  
 <211> 87  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19799

agcttcnata ctttgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60  
 catatcttaa gaaggggggg gggggggg 87

<210> 19800  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19800

tctanccttt tcttccttt ctaccacaaa ggtggagtta ttccacatac ataaaaggcc 60  
 accagcagct tccacagatg gaacaaaatc ccaatgacca gtggagtctc ccgaaatggc 120  
 ctggcaaata cttttattaa agttctccct cttggtttct tggaggcaga caagatgcac 180  
 tttgtgctta caatgagcct tctaacagca gccacttga ctcccctccc ctaacctcta 240  
 gaattatagg agagaattat cataattgct gagatttaat tcccttttct gttgccatca 300  
 aatcatcttt attctccata tccagcagta gcccttaac cttgctatct tcttccttat 360  
 aagacaagcc catttccttc aagatgtcac attgcagctg tatagggtcc tcgtataaag 420  
 aagcccatth ccttcacat tc 442

<210> 19801  
 <211> 368



<212> DNA  
<213> Glycine max

<400> 19801

agcttgtgtc taatcaagtc actccacat tttatctcta gcatgcattg tatgttggtc 60  
tcgtcctttg tcacgggaag ccggaaggtc catatcacct tcttaattgg acacatggcg 120  
cactgcgccc ccaaatacgc aagtaagaag agataatatt ccgggctctc ggggtctgtga 180  
aatgcattca tatcatgcat cgcataaaca tctgttcattg gcatcataat gaacatatcg 240  
atgctgcatt tgtctgttat catattacag cctcacattc tgcattgagtc atggcatcat 300  
catgcatatg cgttcaacac actttttgat ctgcacaatt ggataaccatt tggtttcattg 360  
ttagctca 368

<210> 19802

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19802

tgaagagaga caacaatggt ggtgatttta atgaaaaatt ttcgtggagg aagaaagaga 60  
gagttgtgct ggaagtttct ggagaaagag agagaagatt tggcttttaa aatgggtttt 120  
cttttctttt ttcattntct tttttaaag caattccaca tgtcattttt ttaattggag 180  
caaaaagggc ccacctttac ctttgacttg accaaatact cagccataaa agaagaaaaa 240  
aatgggacct ttttgatgc tgaaatcttg cctcggtttg cgtgccgcct cttcggttcc 300  
agttcttcgt gtttctctgc acccgctgag gccattttc aaggtaggca atatatatat 360  
atatcaaaat gctcagaatg agaccctgag cat 393

<210> 19803

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19803

agctttactt tagatnttat taatgacca ctaacctaga attaaaataa cttaatgcca 60  
ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120

aagtcacccc caacagccaa caagtcagcc accatttggc ctcccacaaag gctgatgcct 180  
 atgttgccaa ttggggccctt attacaactt gaactaaacc taactaaagc ccttttagtt 240  
 gattaaccca aacatatttt ttggtcagcc aactttacaa ggattggggc attatttaga 300  
 cagactaaac actctaaaat tgaaacaaag tgggtgtcatt tagtcctcct ccatttgggc 360  
 catgatacaa ctcaaacct tggacttttc tccttgaaac 400

<210> 19804  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<400> 19804

actcagcttg tgggtcagaa aaatcactgt tgtcatctct aaaagcggat attggaatgt 60  
 atgtatacat gatttgatga tgtcaagaag aatctaacag gctgcttcaa tgataagcat 120  
 ttgcttcaaa atattcaaga ttgcttcaac aaacaagtct tgttcaagat tactaaagac 180  
 caagccttgc cttaacaaa gtgctttaag acatgcaggc tctggaatcg attaccagga 240  
 agggaatcga ttaccagaag acgggttgga aatagctgtt gaaaagggtt tgaattgaat 300  
 ttcaacatgt aatcgacacc atatgtctga atcgatacca caacgaactt tggaattcaa 360  
 ttcaaagtca tacccttcaa tataactgcg aatcgatac 399

<210> 19805  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19805

agcttgcttt cattttcagt catcaaagtc acctccccta tgccaacaat cttgcttgtg 60  
 acatgggtgc ccatcttcac cataccaaaa tcctcttttt gatatggcaa aaaaaatcct 120  
 tcatgaggag taacaaggaa aaatactcca gagtcaatta tccatataca ataatcagat 180  
 gcaatattaa aataattttc attaccgata aaaaaaacat tctcatcatt taatgacaga 240  
 gaagtagtgg ttccaccttt attcttcttc tttgggtcaa ttcaattagc atggatagtt 300  
 ccagtcttct gatctttctt caagaatcta cctcaaaact tcttatgggc cgactttccg 360

caatagtagc aactaaagcc tttgnggtga gacttggatc tttcttgtga

410

<210> 19806  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19806

tgcttctaca actctattta taatatttgc tgcaatcttt atttcctttc ccaagagtga 60  
ctatagtaag ttagaatgac aaatcatgct tcttaccata tccttaagag ttttgtttca 120  
tctttcagct actacatcca tgctaggtga ccacgacatg gtgtactatg ggacgatttc 180  
acattcctct aggtacctag caaaaggccc cggacgttgt tcacttgaac cgtcatatct 240  
gccatagtat tcaccaccac ggtcatatct aacactcttg attcttttgt tgagttgatt 300  
ttcaacttca actntaaatg ttttgaacac atccagagat tgttatattt catgtataag 360  
aaacaagtat gcatatctgg agtaattgtc tatgaatgat ataaaatatt gttgaccatt 420  
ccatg 425

<210> 19807  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19807

agctcggacc cgggatcctc tgagtcacct gccgcatttt tcttacttat aatcggcctc 60  
attgcttagg ttcttcacga agctcgcaaa aaagacgaag ccattttata ggctacttag 120  
gaaaactgag tcattcctat gggatgaggc ttcgaaacaa gctttcttag cttttaagat 180  
agccaattct aagttgacca aagccaggag caccctact cttttacctt aagtagcaaa 240  
agaggccatc agcttagccc ttcgtccaga agatggatag caccaaagtc ccatntattt 300  
tggtagccat gtcattcatg aatgtgaaaa gaaataccaa atgatcgaga aggtgacatt 360  
ggcactcat 369

<210> 19808  
<211> 189  
<212> DNA

<213> Glycine max

<400> 19808

cgtctcaggt accatatcac tctgcgacgg cggagccatg actgatagca acttagtgta 60  
tctagtgcac gattggagga aagaggcaca tgtccgcata gaccctttta tagagatgca 120  
ggatactcta aagataccaa atccttcaga tctgattcat atactttata caatcttatg 180  
tccgcctaa 189

<210> 19809

<211> 340

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19809

agctntgtta accctctatc ttactttgtc ttgtatcgtg actcttcggt gccatcatag 60  
agagcggngc agagagaaga aacactctct gcctctcat cttcaagctt cgatggagat 120  
gagcgttgca aggctaaaga aggacgagat ccagaggctg aagaaggaga tcaattagct 180  
ccgacgtccg gcgacagagc tgcattgactc agagacaagc gcgacgctga agaacctcct 240  
cgaagagggg gaaagaatgg tgacattcct agagacgagc gcgccagcac caccatcacc 300  
atcgctgatg gtattcaaac cctaaccctc ctcaccctca 340

<210> 19810

<211> 303

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19810

atgatctatg gctcctgaat caagtatcca attccttgaa cttgacttgt ttacactgca 60  
agcanatgga ttaaacatta cctttgtgag aattactgga tccagtgatt gtaccaaadc 120  
ggttcacatg tgaattattg tgaattgagc tttgttgctg agacaatgtc atcaaagctc 180  
tatattgttg taaagccaat ctcatatatac tattatgtgt atcttgactt tgtactggaa 240  
caacactatc tacattcttc ttcgatgcac tcatgaagtt atgcttgagc actgatgctt 300  
ata 303

<210> 19811  
 <211> 89  
 <212> DNA  
 <213> Glycine max

<400> 19811

ccccacacaa caaccaccac ccacaatttt ccacacccaa aagggacgga cccccacacaa 60

ccaccacaaa acgaaacgca cgacggcac 89

<210> 19812  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19812

tattcgagta tttaatacta ttctttatgt cttatTTTTg tcattgctgc gtcaaagnta 60

acaatctcaa tgggaggggtg gagccatgat tgagtgcctc tatgtttaac aagtgcacatca 120

ttgttgga aa gaggtacatg tctgcctaag cgcttctaag ataaggtagt gaacttttac 180

gataaaaatt ctttcatctt ttattataa aaaaaatata atcatatgta tgcctataca 240

atatctatgc gggtcttgct ccaatgagtt catttctcta tggctgctct atgccatcta 300

acatttggtg gtggccaaat attacacaac tcatggatgg ctgctagtgt tgacaatcct 360

taagtaaaca ctctgcaa at gatttctcgt ttacttggtg attcgagtta tttaaact 420

attcttg 427

<210> 19813  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 19813

agcttttctg actattaaca aacattaaaa aataaacatt aagtgataaa ttaaacaagt 60

acaaagaagt atgtattata attttaatgt acataccaag tgaatgggtg gatcctccaa 120

gctaatagaa ccacctgtgt gcataccac cctttttaga tgcccttttt tttgtctatg 180

cacacttgga acgataccca ggtgcattcc aatgtaataa tagattgttc cagacacgat 240

ctccaatcaa atatgacctt tgattttcat ttggggcatc cataaacatc ttagagagtc 300

tatgagagga tttcgagtta gaagcttcgt taatttcatt ctcttacaga cgtgtc 356

<210> 19814  
<211> 457  
<212> DNA  
<213> Glycine max

<400> 19814

gcttgctcta agatcgtcgg tttggtagtc acctccacat atttgtgagg gggatatttg 60  
ctggggttttt tgggctcact tcctttgtgg agtacagacc caaaatgaga tgacctatat 120  
gtctcatttta ttttaagtga gagaggctat attagagagt gagatacagt gagagagact 180  
catttgagag ggaaaaaatt tacaaatcat tgagagagat agaatgagag agaatatcat 240  
tgtgatattc gcatacccac tagagagcgt ttttcagatt gcaacttcgg atttgttcac 300  
cattggatcg ggctgatttg aggacaactg gttctacgtg cgtgatactt caaattatct 360  
ggctggatcg agaaaaagat atctggagag agagataagt gtttcgcatt atctgctcta 420  
tattctaggg gtttatcttc ttgtctctat tgtacca 457

<210> 19815  
<211> 276  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19815

agctcgagta ctattgattg tttttccac ntatcccttt taattttttt atatctaccc 60  
aactattcct atttccaaat tattaacata accatcccta ttactattct tagtgtgaat 120  
tagagcccc agtctcgaat tcacaccttt tttttttttt gtaacttttt gaatacctac 180  
attcggaatt gaagaaccct taaccggaat ttgaaaggac tgggtttttt ttgcttttcgg 240  
aggatcccag ttactatac acattgtcta cttttt 276

<210> 19816  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19816

aactgatgca ttggtaactt ggaacccttt tgccttgaat ctgaaatctg tcttggcgca 60  
 gggtttgggt ttgtgctcct ctgctgacca ccatacagac cttngccctt ccattgcagca 120  
 acctatagca attgagcagc ctgaagctta tgctgcaaatt atttacaata gacctcctca 180  
 acctcagtag caaaatcaac cacagcagaa caattatgac ctctccagca acagatacaa 240  
 ccctggatgg aggaatcacc ctaatctcag atgggtccagc cctcagcaac atcaacagca 300  
 gcttgctcct tctttccaaa atgctgctgg cccaagcaga ccatacattc ctccaccaat 360  
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 cgaa 424

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 <223> unsure at all n locations  
 <400> 19817

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 agaagcgcct cggcttggat tttcttcacg gaaacaattt ttccaagcaa attcgaaaga 180  
 gagagaagtg cctaaggagc cgaacccttt ttcacttcac ttctccccct atttatagaa 240  
 aattggggga gaagcttgcc acccagctcg cccaggcgag cagggttgct tctccagaa 300  
 gcaacagcct tctagaggaa tcttctggag ggcccaagtg ggcttggttg ctatttgcac 360  
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 cg 422

<210> 19818  
 <211> 438  
 <212> DNA  
 <213> Glycine max  
 <400> 19818

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 tgtacctgtc gcaagggttt gtggtttgtg ctctctgct gaccaccata cagacctttg 120

cccttccatg cagcaacctg gagcaattga ccagcctgaa gcttatgctg caaatattta 180  
 caatagacct cctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240  
 cagcaacaga tacaacctg gatggaggaa tcaccctaac ctcagatggt ccagccctca 300  
 gcaacaacaa caacagcctg ctcttctctt ccaaaatgct gctggcccaa gtagaccata 360  
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 tccacaacct tccctcga 438

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 <213> Glycine max

<223> unsure at all n locations  
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 ggacgaagaa cggtaaagaa cggaggaaaa cttcacgga tttgcttacg gaaacctctc 180  
 ggaagcttta cggaagcacc tcggcttga ttttcttcac agaaacaatt tttttttacc 240  
 caaaacagct gaaatgcata gccaggggaa tcaggcacc cttagaacaac ccccttttgc 300  
 cttntatag gaaaaagggg gaggaggttg ccgcccagct cgcttangcg agctgggttg 360  
 cttccacctt aagcaagata atgcctagaa acctctagaa gggcctagat ttgaaaatta 420  
 cta 423

<210> 19820  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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gcttgaagtg agaaagtgtg gaagagtcag tcttctact ttttttcgtt gaccatatag 60  
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 ttgccccaaa ccaatcttga ccaatcccga cccaacccat gcatagtcag tcagtggaaa 180  
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Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
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<223>      unsure at all n locations
<400>      19821
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<212>      DNA
<213>      Glycine max
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<223>      unsure at all n locations
<400>      19822
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8299

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 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19823

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 atattgcctg ccataattca tgtggtgcaa cttataaaat tgttggacaa cttcacttaa 120  
 tgttatttga ttttaagatg aaatctaaca tggataaaag ccttacaacc catctttgtg 180  
 tattgcctat ttttctacat tgggtggagtg gggatgttga aaagtcgcac atcgtttgcc 240  
 ttaattctga ggggtgcaact tatatactta ttgggaaact ttacttaaga ctaatcgatg 300  
 ttatgaatct tatgatgaaa cctaacaact tgcaacgaag agacttgctg gttgctactt 360  
 gtttcaaagc ttgggtattn gtgcatacaa acc 393

<210> 19824  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19824

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 cggtttcaat ttcaattgga gtgtccgatt gtgattgtgt taatgtgatg gattttgggtg 180  
 tggtgagtgt ggattntggt ttcaggtacg ttgggatctg anggagggtt gtgttggtgt 240  
 gttgtgttgc gtgtttgtga aatggaggac atacgatacg ggaaaggcgg gctgtgaaat 300  
 gagatcggga tttccacccc ggaacaatcc aacaccggag tctagtgtg ggtggggctt 360  
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 tntgcgttta attactcat 439

<210> 19825  
 <211> 413  
 <212> DNA

<213> Glycine max

<400> 19825

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agacggtgat gaaactgatg atatccatga aaatgacctt attagagaat tagacatggt 180  
tcttgacgta gctcctatgt ggagcttgta ggccttgat attcttcac aatggagtcc 240  
tttgcttctt gaagatgaat gacagcagaa tggagaagga agatgattgg agatgccact 300  
tcaaggagaa gatgaatcaa gaagaagctc accaccatag gaagccatgg ataagagctt 360  
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<210> 19826

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19826

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aaaagctatt gatctttctt attcctcac cagagaagct gttgctctct ctgattcccc 180  
agttttttta tctgatagat gaggaggatg ctgggactct gttgatctct ctgattataa 240  
ctatattagt ttcagtacat ttttttgagt aattctgggt tctgattata attatgtact 300  
tatactttct gtgattagcc actatgcttg gtttgaagca tatggaacaa tttgacttga 360  
ttntgatgat attgcagtga aacactttta tcttttaata agaattggtg ttatgaatt 419

<210> 19827

<211> 410

<212> DNA

<213> Glycine max

<400> 19827

agcttattct tcaaacctat tgaaacgata gatcctgaag aaaatggggg gagggggggtt 60  
agcattagag aatagaataa cagaattact ttgatttaaa tcttggaac cagaagatag 120  
cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180

cactttttaa	aacagttgaa	gagaaataaa	acacagcatt	tataccagat	agctgttgta	240
aagcaaatag	ggttgatcca	ataaaaacaa	ctgcaaaacg	aacttgtgaa	taaaatataa	300
cttttgga	aa	cctaaggaaa	ccagtgacca	gataacaaca	atggcaaata	360
cactcacaag						
tcacaactat	tccagagaca	aaccaggata	aatgcatacc	tttagaatga		410

<210>	19828
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<212>	DNA
<213>	Glycine max

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catgctcaaa	ttcatgtagt	tgtggactca	ataattgctt	atagcatgag	aatgatgagg	180
agattgaata	actatctgat	gattcacccct	gtaccttcga	taatttttca	ctctgctgct	240
acaacaaaat	tataaaaaaa	aaaacaaaaa	gagcttatca	actcctttca	cacttcacag	300
gaaaaagagc	ctgaaacttg	cgtaccacaa	acaagttcta	gtcattccca	agtattcatt	360
gttatttgat	agacctcgta	cacaaaactt	gaattctttg	aacttgtttg	acaaataactt	420
a						421

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<223>      unsure at all n locations
<400>      19829
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<210> 19830  
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 caacaaagtc cacagatcaa tgcttctgtc agcctataat taacttgtat ttttcagtgg 120  
 aagctatcaa ttgagcatga gtttggtcgt gcacctggcg aagttaggag atgaactcct 180  
 caatgggtgtg ataagaacac acttgactag ggaaacttat caagtcaaag ggggccacga 240  
 gtaatcatgc aataaataac gtggaaagga ctagcctggg actatgatta tcgacattat 300  
 tgtgagaaaa tatatcttga cagagtctaa catcccaaga ctttanatga tcgccaacca 360  
 aaatgcatag caagttacca atggaacgat taagcacttc aatgtcactg ttagtttgtg 420  
 tattgtaagc actgctgaag tt 442

<210> 19831  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 19831

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 ctctgaggca cctgccgcat ggagctgtgt cttggcatca gagatgataa ttggacctga 120  
 ctgagttcat aattaattac atcatctctc aacattttca tcgatcttca tattatgtca 180  
 gaaattcaat acattttctta ttttctaaag tcttataacc ttctcttcca aaaagtcttt 240  
 gtcaaaactt ggctatcatc ttttcatttt tctcctttgc aagagagcaa ggactatcac 300  
 tgaatctttc gtgctctctc tccttataaa gatctaggac tacccttgat attctttgat 360  
 ctccgttctt taaacaatat tgaagacgac cgctaaattc ttttattcct tacagatcg 419

<210> 19832  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<400> 19832

actagagaga attccatgct accttactac taccttgatg tacaacatca ctagcttttc 60  
cattgtatac ttcattattca ctgcgataaa atgagcagat ttggtgagtc catctactat 120  
gaccacacaca gtatcatgcc cactactagt cttgggtaaa ctagatacaa aatccataga 180  
tatgctctcc catttgcatc ccggaatctt caatggctgc aattctcagc atgggcgctg 240  
gagctaacct aagcctttga catgtcaaca tcttgctatt attcggcaca tcttattcat 300  
gcctgccacc aaaactttct taatcttgga catat 335

<210> 19833

<211> 346

<212> DNA

<213> Glycine max

<400> 19833

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atggtttcct tcagtgtctg agtcattctt gtaaccattc atttgttcaa actcaactgc 180  
aaagatgtgg tttgactcat tcccatcatt ggtggagtta acaaggccaa gataatggcc 240  
agcctcaacc ccaggaaact gtgttgaggg tgctatgggt aaggcaaggc caaagccacc 300  
agaaccagaa cttgtggaca caattgagaa aacaaaattg gtgctg 346

<210> 19834

<211> 336

<212> DNA

<213> Glycine max

<400> 19834

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atgtctggac aagagaacca tgtggaagag ttatgacttt tataataact tacaaccaat 120  
ttgataaagt caaaaacat ttgaagagtt atatatttg atttattcag aaataatcac 180  
tggtaatcga ataccatata agtgtaatcg attatcacia agctcttatg taaaacaatg 240  
tgactcttca catttggaat tgaattttta cgttcaaaga cactgggaat cgattactaa 300  
aatattgtat cgactacagc tttttgaaat aattgg 336

<210> 19835  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19835

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 acccccccca acaacaggaa ccggagcaca caccacacaa cccaacaaca cagagagcag 180  
 cgaccgcacc gaacaccacc cagccaaaa gaccaacaca gacgccacac gaacaaacac 240  
 gggcgggcca acgccaccga agcacaacaa gcgaaaaaaa cccaaccac aaaaaaacac 300  
 gcgagacacc agagacgaac ccaacacacg cgcgccagcg caccgcacac accaaaacgc 360  
 gacacaacaa ggccagaaac gcaaaaaaac gccggacacg acg 403

<210> 19836  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19836

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 ttgtacttga ttcttgaatg gctgtcaaag gcctatatat gtgtgacttg ngacacgaat 120  
 ttgctaagag ttcttcacaa caaaaaggtc ttatcctctt aaaaagcaaa tcatattatc 180  
 ctcttacaaa ttcttggcc aaattacttg tgattcaata aggaattatt tgagtgtctca 240  
 aattgttcaa tcaatctctt taaagagaga tttcttcttt tcttcttctt cattctgaan 300  
 agggattaag agaccgaggg tctcttggtg tgaaagaatt ctaaacacaa aggaagggtt 360  
 gtccttgtgt gcttagaact tgtaaaagga atttacaaga tagtggaact ctca 414

<210> 19837  
 <211> 391  
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 <223> unsure at all n locations

[illegible]

<210>	19838
<211>	421
<212>	DNA
<213>	Glycine max

<210>	19839
<211>	419
<212>	DNA
<213>	Glycine max

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taatgaattt tttttggagc tgagttagt gttgtttctt tgaggtttga acctgtgac 180



# SECRET

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<223>      unsure at all n locations
<400>      19840
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8307

aatccccct

428

<210> 19842  
<211> 104  
<212> DNA  
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<400> 19842

gcttctaaac tctatacaag aatgaagctc tgataccact tgttggacaa gtggcttcag 60

atatcttaag aagggggggg gggggggtga accccccct ctcc 104

<210> 19843  
<211> 336  
<212> DNA  
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<400> 19843

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cctctcgtgg taatgcgaac gggctacgta agaccggact attacaacat gtcacatgcg 180

cactaacgaa gtcaaggccg cgtgaatacg gcacctaaact gacttgggtat ctattctccg 240

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tacatacgac aggatagacg tccctgagag acgacg 336

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<400> 19844

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agatggaaaa ggatttatca aggccatttc tcttaccaag gagcctagct ccggaggata 120

aattaagtgt tgagaggact ataatttata gatatcgtgg tccattctta tccgatattt 180

tgactgcaac ggcattgtct gaacctaatc caggaaccaa agactagaga taatatttta 240

tatacgtgac ttctgggtct aaaaatgttc aatttgtgtt atgttaatag cgtgtaccat 300

ctatgcaaag agcgtgtttc ttgagtgcct gtgtgtactt tccgtactat gatccttctt 360

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cggtgctttg	accgcgttgc	tgatcccgtc	gtatancccg	acacactcta	gaatactcac	60
gctcgcaccc	tacataccgt	gtgaccacat	tttataatca	gattatccga	cagctgccgc	120
ggntcattta	ctagagtctc	tataggcgag	gcaccgccta	tgacagttcg	acttgagaca	180
caaaccatct	aagagtctta	caaaccatca	gggtcctatt	ctcagccact	gcacataata	240
tgcgccta	acggacaccc	tggccaaaag	acttgggaat	cagaattgaa	tgacatgggc	300
gcacgaatag	ttcaaagctt	ctctatatag	agagagcccg	acttggacac	tcttgagaca	360
agatatgacc	atatagaccg	ctgggcgcctt	gcgttgaaca	attccaaccc	cacggcatgt	420
tatgccctcg	gagcgacatc	ctgtaaaaga	gattaactat	ttgggatctc	tacagaggct	480

<210> 19847  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<400> 19847

agcttcatta ttatcaatac atctctatta agcctctata aataacatta ctgtagctta 60  
 tccaacagga gccttgctgt gagaaaaata gaaccacaa atacgattta atttgcaaaa 120  
 tatcatgggtt aaaagtgcgt aatatatctt cctggtagca attaattaag gtgcaagtag 180  
 aattttaaagt gcacaacagt catgtagtaa ttcataattta gaatatgtaa taattcatat 240  
 atctacatt cataagacaa aatatagtaa gtttttatga accatagtta ggcacccatc 300  
 accgaaacag gcttcttaga aagtgtttat atattttgca actaatcaca tctactcaat 360  
 ttaacatgc 369

<210> 19848  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 19848

aagcttgaag gtaaactaga tgccttggtt ttctggaacc catctggcca tgaatcagaa 60  
 atctgcacct gtcgccagac tctgtgattt atgctcctct gccgaccacc acacagacct 120  
 ttgcccttct gtgcaacaat ctgaagcaat tgaacagcct gaagcttatg ctgcatacat 180  
 ctacaatata cctcctcaac cacagcagca aatcagcca caatgaaaca attatgacct 240  
 ctccagcaac aggtacaatc cggggtggag gaatcatccc aaccttagat ggtcgaatcc 300  
 ttcacaacag tagcaacaag aaccttattt tcaaaatggt gctttagtaa gcaaagcttc 360  
 atgatgaatc cagattgatt caaagatggt ctgatgataa caaagatgaa tgacaaaagc 420  
 tcaaggtcaa tcaaagaatg ag 442

<210> 19849  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<400> 19849

agttttcttt caagtcctaa atgacatttc aagctagtat taactcacgg taacctacat 60  
ctaccacagg agggagactt agccatacag cctcaaagc ctactcttt ttccactcat 120  
aacaccacat tctcactttc caaccctagg ttaactctac ctttcatctc taatagtttt 180  
tccatgagca acttcagcat ataaacatca caaacatcat cacaaaaacc ctaaatagaa 240  
tgggtatgtc taactcatcc agacatggca atttcaaca gctttcaaca agagtcttca 300  
caaataacca tcatgaagca gaaaactacc aaaactacc atcatatctg ccaaaacccc 360  
gtacccacga acattaagag ag 382

<210> 19850

<211> 280

<212> DNA

<213> Glycine max

<400> 19850

atcggcattg tgccccctta gaggtagcaa gatgctacat ggtttcacca atgactcgga 60  
catatcagca acaagtgtct ttccagcttt agtcaatcga ccaacatatg gatgtccaac 120  
taaagacttg gccaatcat gaatatgaat gcaacacatc aactttacca tccaaccttg 180  
tcctccaacc actgggttgc cacaaagctt gaagggacac ccacatttcc taagtccagg 240  
atctcttcta acaaatgcag tcttcctaca cctatactcg 280

<210> 19851

<211> 416

<212> DNA

<213> Glycine max

<400> 19851

tgcttctttt caatagtctc accttctcct taagttgtcc attctcttct cactcttggt 60  
gcgcaaaagc ttttgagtct ctaacttgga ttccagctt gttacattct cctattaaca 120  
catgatcttg ctcttatgcc ttcttcaagg caacatcctt ctctcttatt ggctctaatt 180  
ggttgatatt acctagggac tgcctcaatt ctagaaaaca ttttatatgc tagggaaca 240  
tgggtgagat actctatcac cctaccaag attgatatgg tagaatctaa gctgggatga 300  
ttgtttttta gaacaatctc ccaattctca aacaaaataa gacgatcaat ctctcactc 360

atagacatca atatgagggg accgccaac atcctgggtac gaaccaagct agaatt 416

<210> 19852  
<211> 330  
<212> DNA  
<213> Glycine max

<400> 19852

acctggagat atgtcgcggg ggtcatgaga ccttggggac gtcaggtggg gtgctattgc 60  
ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcgggtcag tgagaacctg 120  
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggataa caagaccaca 180  
aagcaaggag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg tggatgggtg 240  
cctctggtaa tcgattacca aggggtgggta atcgattaca aggcttataa ttgatgacag 300  
gaggctaaaa tggctctctg taatcgatta 330

<210> 19853  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19853

agctttttat taaaatttct tccttctcct ttgttttaact actacagtat atatgttatt 60  
ataatttgat gctgatttgt gtgcaggtaa gttctcatgg cctgagttgg ttgggggtgca 120  
aggaacggta gcggaggcta caattgagag ggagaatcct tcggtgaatg ctattattgt 180  
gcctctagga tccgtgggtca caacggatct tcgaagtgc agggtttggg tttgggttaa 240  
taaagatgga attgttaata gagttccaaa aattggatag gaagtgttta cactanagca 300  
catcaccata tatgttctaa taagttatga atatatagta atatttaaata aaggagttat 360  
ttttccaatt atgttctttg attgcaaaaa atattttata cttttaatta tgctct 416

<210> 19854  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 19854



<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19857

agcttgatat actttcaaaa ggtgtagatt gtgagtgcac ttgacctccc acaaagcaaa 60  
 tgcaaagcac agcaatgtgg gatcagtagc cccatcctta tagctaccat catcaatcat 120  
 gctctcccc aacaaagctg caattatata taaaagcttc aacgtaagat tgattttgac 180  
 aattttctaag aactaaagac aaaaactgaa ttatgtgaac atgttaaccc agacaaatca 240  
 ataaacaggt ggcacttaca actgaagatc cttgatcttg gagagcaggg atttagttgc 300  
 tccctcaatg tgctttntaa acagcttcag tttctcttcg tcaagctttt gacaagaaac 360  
 tgcttcttgt caaaagcagg ttgctcctac ctacaaagat aatat 405

<210> 19858  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19858

tggcacatgt tccagctgcc aatccacaaa ggaaaagctt atagctagag aggttatctt 60  
 ctgcagcagt gttggagtat ctatgattcc aagcctacaa tttcacaaac aatacatatt 120  
 cacaggtcca aaaactgcag tgtcaagtaa actgaaacaa gacattcatt agctgtgtga 180  
 aggaatccaa ctccatcttt aatgtaagat tacaacttac aagtggaaat aaatccatag 240  
 tgacataatt tgaaggttcc ttttctcaac agaactttaa tctaaactac aatcaattat 300  
 caaatgcc aacctaacaat aggtatgagg catggacacc actaatttct caattgaaag 360  
 cagtggtgca gcagctntat tgggtgcaa aattcatcca gcttagtgat tgacatatag 420  
 aggcaatagt aatc 434

<210> 19859  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19859



ggcactcttc gtgtaccgt ganccctttg aactccacnn caatccaacc naccacga 60  
 taccttaagg caccgcagc atgtatcaag cttataaaca accgacggg gacttttggg 120  
 atatgtttgt ccccatctac gctttaaggt gtacacttcc tggtacaac aactttccac 180  
 acgtttgcct atccacgatt ggcccacgag aattttgcct tatagaggtc cacgaaggac 240  
 actgcggcct aatgacctct tccgttcagg aggatgactg ccaccgttgt aggagcgctg 300  
 taccagcag agcttcgaag ccattaatgg atggttcttc tgcgcgagcg tatctgact 360  
 tcatggacac agtatacttt tacacgaatg atataggccc taccatgaca ttattggtac 420  
 tccctgctca ttcaaataga aatacactct agtcttgcca tgcaggctc at 472

<210> 19860  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 19860

tgcttctaca caaagacgag taaaaaccga cgtagaaagg ttctaataca cgcacgtaga 60  
 aaggcacttt tgtcatggtg acaacattaa agaaattgag aaataaggaa aaatgtctaa 120  
 attggtttat atatatagtc cttcaagatc tagagtaata tttattattg taccattgaa 180  
 tttgagtatc ttttttgtat ttgtaactta atttgattga agtttaattc tccttacctt 240  
 atatataata aaggatgat tcagtccttc atgcatttgc ccgcattttc ttaattttca 300  
 caagttaaac ctgaacttat actattttgt gtaagtgtct tttccattt tcatatttta 360  
 ttttttattt tcaaaatcgt cataagtgtt ttgttactat tcttgctaaa gttatttaag 420  
 ttgagactgc aaatgattag tgttactaat catg 454

<210> 19861  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19861

agcttgtatt agcatatata ttgntctcta tacatccaag ggtaatcata acaaaaattt 60  
 gacttttagtg caacttaatc aaaaggaaaa tcataacaaa aatctcccca tcttttattc 120  
 tcctttgtgc ttcaaattca acatgaatgt acattaatga cgaggatgaa aagcattata 180

[illegible]

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<223>      unsure at all n locations
<400>      19862
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<400>	19863
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aatgtaagtt tattgtaacg taattttttt tggataatat atattaaaaa aattaa 416

<210> 19864  
<211> 451  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19864

ctcttctcgt ccttgtcctc ttaagaatga aacaagttta gtgttgcat tgaaaaattt 60  
ttactcaatc catttctgtt agtaatggaa aaagttgtgt acaatctatc tatctgtttc 120  
accttttttt ttacttgtat acatgtaaaa ttttaaatca catcacttca aatatgttaa 180  
attagctcat taaaaatata atttatttgt aagtaaagtc cagattgatt atttactctt 240  
ttatccaaat ttttaatttga aattcagttt taaatgaaaa aaaaggttat tgtcactgac 300  
tcattttata aaataattct catccaaatt taaattttta atttgtaaac tttaatcttt 360  
nttttatcag cctttanact ttaatctgaa tatatactat agtattttct tttcagcaag 420  
agataatatg taggaataaa tacgtcaatg t 451

<210> 19865  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19865

agctttgact ccactcacgt tagaaaattc agtcattttc ttcattagt ctttctttct 60  
cttcgtgaaa gccaaatcac gatctctccc atttgggatg ggctttaaga ttaatttttg 120  
gcgtcccatg ttctaaagca tatgcacata tatagaaatt gatcaataaa gcaaaacttg 180  
gggtcatacg ttggggatag agagatcaaa tagacaacta gttcatgaat tgatcgaatg 240  
tttcggataa gatgttggtc tagaaattta aaataaaaaa taattcaaca aaaaagaaaa 300  
tcatcaagga tcaaagaaga atggttcaag tctaattctt cctctcatca aggattaaag 360  
aattntatag aagaaaaagt aaactgtttt tgaataatag caaaaatgaa agataaaagg 420  
gaag 424

<210> 19866

<211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19866

ntgaggattt ggtctttgcc agtgaaagga tcgatgtggt tctgaaaaaa tgtaattta 60  
 gtcacacctgc ttggacgaat gagaaaacta gggcaaatga agaggggtgag aaagagggag 120  
 aaacccatgc tgtgactgcc attcctatac gaccaagttt cccaccaacc caacaatgtc 180  
 attactcagc caataacaaa cctcctcctt acccaccgcc cagttatcca caaaggccat 240  
 ccctaaatca accacaaagc ctgtctaccg cacttccaat gacgaagacc acctttagca 300  
 caaaccaaaa aacaccaaca aaaaggaatt ttgcagcaaa tagcctgtag gggttcacccc 360  
 anattccgtt gtcatatgct aaacatgac ccatatccac tcaataattc aatggtagcc 420  
 ataaccceaa ccaagggtcc tcaacctcca tttttctg 458

<210> 19867  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19867

agcttccatc aagttttaat caaagcacia gagcttcaag taggtgctcc ctaaacctcc 60  
 attaagtttt tgctttacct tctcttctat tgttgtttct tcatttttct ccatgtatct 120  
 cctcacatgt cttgtgctaa atgtttttta catgattctt tagagtttcc accgattaaa 180  
 ctctctatag aagctagatt tgattttcta tggttcaaatt ttcttgttct tgttcttgaa 240  
 ccataaattg tgttgagttt aggttccttt gagttttgtc ttgttatttt ttgtggctga 300  
 aacctaacc ataaaattct taaaaaata ttaaagtata agaaaacctt anaaatctag 360  
 agtgacttgt tcacctattg tagtntgtc atagaagtca tgtctagtca tgaaacttgt 420  
 cacat 425

<210> 19868  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19868

tatatgatat aaactcttat ccttatgctt tcacaagtta tttttcaaag gctattggaa 60  
 tttattttat catctattat tcaatgtcca acacattatt attaaacaaa catgaaattg 120  
 tttggaaaaa ccagtactta tgtagtgagt gtctttacac gtacaattaa aaaagacata 180  
 actaagttac actaatgttt tatattctgt ttgttaacat ccaaatacatt ttgcttgcatt 240  
 gtgaaagcat ctccaagata aatatttgct gatgcaatcc tccctaggaa gggaccagtc 300  
 actagagcca tgagcaagag gctccaagag gattangcta gagttgctga agaatgcctt 360  
 aagattctca tgaacccagg gtagatntct gagcccatgg gccaaagggtg agtccaatta 420  
 tctttgtaca tattagacta gaatgtcatt at 452

<210> 19869  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19869

agtcttgttt atattcaccc caattccaat gtcttatgct gacttgctcc catatctact 60  
 tgataattca atggtagcca taaccccaac caagggttcat caacctccgt ttctccgaga 120  
 atacgactcg aacgcaacgt gtgcttgcata tggagaagcg tcggggcggtt ccattgagca 180  
 ttgtaaggcc ctgaagcgta aggtgcaagg tctaattgat gcgggctggc tgaaatttga 240  
 ggagaatcac gtgtaaatcc tgacattgac aagagatgcc acacatggnn gaaatttgaa 300  
 agctgttgtt agatgtctcc aatgactcat cangattttc aagtntgtac cattattgta 360  
 aaccacagtt acaatggtaa atgaaatgga tatctttgtc cctcatcctc tcacaaa 417

<210> 19870  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 19870

tgcaacatca gagaacatga agaactttct ttgcagacat ctatagggag cgatgtgaac 60  
 acacaggtac ctatgggaat tttgcggtct gtcaggagtc aactacacta gtttggcact 120

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<223>      unsure at all n locations
<400>      19871
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<210>	19872
<211>	420
<212>	DNA
<213>	Glycine max

tcaacctttg	gtgccattt	ctgatcctaa	tgcgcgaaatt	tggcattttc	tgggtcgtga	60
attgcgtgtc	tacgagttag	acttcgaaat	ttcaggtttg	ggtggacttc	tttctctctt	120
aattctcgtg	ggtatgggat	tctgggagat	atgacgggta	gttttgttac	gtctctgctt	180
catggtagtt	at ttgtgaag	actcttggtg	aaagtttgtc	gaaattacca	tgtttggtatg	240
agttaaacat	accattctg	cgttatgggc	cttatgatga	tgcttgatgat	gttcatgtgc	300

tgaaattgct tatggaaact gttagagatg aagggtagag ttaacctang gttagaaagt 360  
gagaatgtgg tgttgtgagt ggaaaaagag cgatgctntg agagttggaa tgtaaactctg 420

<210> 19873  
<211> 262  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19873

atcttgggtca tgagctgaag catcagaaag aatcttcttc taagttagat gttgcatgg 60  
agcttgattg ctttaattgaa acccatgact gaaactcaga tgctgagcca tgataaactt 120  
cctctgacca aaacaaggag ggatcctcaa attcaggtaa caacacaatg gagctggcct 180  
tcaaaatgat tagtactgat taggagacaa ccaacacact tctcctcaca agatggaagg 240  
tgannatgtn ngttttaaaa tt 262

<210> 19874  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19874

agctntactt ggagctacgt taagactgaa gagggaagag agccttctag tagcaaccct 60  
tgactcgttc atgggggatc cgcagctacg acaacaaatt tgtgtcagtt ggtgtcgtgg 120  
atgagagaga ttgaaaactg caccattgcc acgaatgaga gagatcgaca accgctacat 180  
catcacgaac gaggtttttt caatcctgaa ctctttcgct caattgtcgt caacacacca 240  
catcaaatcc tagccaccac catcaaaagc ctactatgaa cgagggagac tgcaactgct 300  
ccatgaccac aatctacgga gaagggtttt gaactttgat tattataaaa tcaaattaaa 360  
aattattggt gttttaaaac catcagtatg tgaaaacnta gtaaagtgcac acat 414

<210> 19875  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19875

tctaagcctg gtggattgtc tagtcctcct tgaagtaact ctcgagagga tttctgaatg 60  
 tggcgggggac cttgnggggtg ttgccataag cctgtggaaa taaaaaaaaat tcagtttggc 120  
 aaagtcagtt atgtaataca caataagttg taaatttaata tataaattta tgcattacaa 180  
 ttaaaagaca tggaatatgt atatgggtact ttgtgcttac gcagttatgt aggaatgttc 240  
 tcccataaac ccttgtcatg atcagtagca tttgcatata catcatcttc ttgttgttca 300  
 tcattaatca aaggcatgtc tttggagaaa ggcggcatgt cactgacatc aagtgttgaa 360  
 ccatcaatat ggtgaccgat agaaattgtt ctcccttgca aaaccactga ccatctaaag 420  
 ttgtcgggat cttctacata aa 442

<210> 19876  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19876

ttcatgttag cttaatataa attattaaat ttattatata taatataata atttataatt 60  
 gaaagatggt ataagattat tttacaccag cttattttct cttattacaa tcataaagta 120  
 tatttttggc cattntcggg tactagttca cagtattaaa agctnttacg tgcctgatcc 180  
 atagaactaa aaaaaaagtc aattcataga tgagaaagaa tganagatat tattntccc 240  
 agagtaaaaa aacgatataa atgagggttaa atgtaatgta tccattccta attaattaaa 300  
 tcattaaata atattaatac acaagaataa ctagtaatga cgggtacact tgcttcagtg 360  
 tttacgcata gcaatgaatg cctagtctct cttcttgact ttctccatat aca 413

<210> 19877  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19877

ntcctttctt gtaaaagata aaaaagttca cttatataat tctttcattc atgcttgaaa 60  
 caagtaaaat aatccaacta agcataaact aatacaagta gaaggataag aaaaaccagt 120  
 aaatgatcaa accaaactgt attttattca tattccatgt agtcttagat acatggaaat 180



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<223>      unsure at all n locations
<400>      19878
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ttgcttctat	ataagctaaa	ccatttttatt	aagaaacaca	agttgagttt	tattcagaaa	60
attagagggt	atctcttttta	tcttagtgag	agtgattctc	ctaagctctt	gagtgattca	120
agaacatcct	gactatatca	aaggactttc	acaacctttg	tgtgttgccc	tcgccggaaa	180
gagtgattct	ttccttcctt	tcaccttcaa	ccttttttct	ttcaaaccac	aattccagaa	240
aatccacttc	tgcccagaat	tatcttggtg	ccatganctc	tcgtttacgt	gct	293

<210>	19879
<211>	130
<212>	DNA
<213>	Glycine max

<400> 19879

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gtgtcaataa gtagttgtag tttctcatta tggggaatac ttgtacttgg gggcatgtca    60
ctcggttcag aactttcttg agactcatgc tgatcaccat gggggggggg gagttgtctg   120
ggcccgacat                                     130
```

<210>	19880
<211>	400
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      19880
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tcttgctntg tcccttgctc gtgcctttag ccatcatctt actttgatgg gtatagctga 60  
aaccacccat aggtatacat tcttgctctc aactattggt gtctttttat tccattagtt 120

gataatttgt	cttgtcttta	tttggctgag	ctctgtgcaa	aattaagccg	caatctctcc	180
aaaataagcc	gaacctttga	ctaataacaa	cattgagggg	atactatact	tctttaatct	240
aagattaccc	cagtatgata	gtcttgaaca	agttatgttt	ttgcagggtt	cgtaaaggag	300
gacatatggc	tcttgctgca	aatcttgtg	atgatatctn	taacnaacct	gttttataag	360
acagtgttca	agcacgtctg	tggtttagtc	ctcatttctg			400

<210>	19881
<211>	431
<212>	DNA
<213>	Glycine max

tgggtgattag gatgttntga ctgacttcta ctcatagatt cattccagtg ctcatgggtga	60
tcctcctcat cattaccttc tgaagagaaa gaagtgatca tcaagtctta aaagtggatt	120
gaaagaatat caaagatatc tttgaggata taacagtgac aaggcgtagt ctagaagaac	180
aaatcatata gaaaaatctt cagctaataca tgtaaagaca ttgtgagtgc attaatagaa	240
caataaatgg atgaccattt cacttgcagt gtatcatcaa atactatagt gtatctatat	300
tagtctaact cacaccaagg tttaaaatac tttgtagtat ctacaaacta ttttcatgcc	360
ggaagaaaac tttncatttg aaaagcagat tntgttgccct catcatatga aaccttntgc	420
aaaaacattc c	431

<210>	19882
<211>	499
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      19882
```

cgccacaccc	actcaaaacg	agccaaacac	aaaacgttca	aactaaaana	aacccccncc	60
cgccaagga	tgacacantg	aaaccctgaa	naccaccaa	tccagcgccc	ccacaagacc	120
caacaagcca	ccccacaata	ttacacccat	ttacaccac	cacaacgggg	aaacggggac	180
gaaacgagca	cccacaacca	acactaacac	gcaaaaccaa	accaagaagc	accaccacac	240
acaagaccaa	aaaccaaccc	cacacacaac	aaaaaccgaa	acgaccaccc	ggccaaccca	300

603437 304.4.2000

cacaaaaaac caaccccaaa cgaaacgca accacacaca caacgaaccc aaccacacac 360  
accaccacgc cagcgacaac acagacacca accgcaaccc cacacaacac aacaccacaa 420  
cgaaccccaa accaacacaa caccaccccc aaccaacca gcaagcacgc accccagaca 480  
acaccaacac caacaccac 499

<210> 19883  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<400> 19883

gtgcgtagcc caccatcttt ccataaaagt atctatacgc gtcttccatc acgatcatcg 60  
actccctatc catcattggg ggtaccacct gggccgctag atccctccac cttttgggcg 120  
tggtctttgt aagatctgtc tcaacttttg caaatgttct gtagttgcat cctatcctga 180  
accatatcaa acttgttctg atactgccta tcaaaggcca ccattatgtc cttccaagaa 240  
tggactcggc aagacttcca gtcagtgtac caggtaacag ctaccctagt aagactttct 300  
gggaatgaat gtatcagcaa gtcctctagt tctcgatatat ccccatctcc tgacatacat 360  
ctttgatggg cttgggaaag agtccacttt acttgtcata tcaatc 406

<210> 19884  
<211> 424  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 19884

agcttgagaa ggaacagaat tatTTTTgta tccactctca gctctgtagt ttaaaccaaa 60  
tatccattcc aaacaagcac aaagaataaa aaatcattgt aattattagg tctgttggtt 120  
ttgaggatat cctctcccta gttggattgt ctttttctat ctaacaagct tactatttta 180  
tctgaaaata aaagcacttc ttgggtatttt actatttagt atttactata ttatacaacg 240  
gaaagaaaag catcttaaaa ttattcataa aacttactac aataaacatc atcatcattc 300  
aacanaaaca ttcaaaaatg aacgagtcaa caatgtgaag tttgggaggc caaatgaaa 360  
tatgaaaaat gcaattacag caaacatgct taaatccaaa agaattctaga acaatactga 420

<210> 19885  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19885

ntgaatcata aaaaaaatac tttaaatagt aaaattttta tttaaagtgt ttttcaacaa 60  
 aaagtaaaaa gaatatat tttataataat tttttataaa aacaaaataa aataataaac 120  
 actaaattac agtaagtaat atatatatat atatatatat atatatatat aactgcggc 180  
 atactccttc caaagttgcc actggtaatc tgattcctgt tccatcttct caatatccac 240  
 tcaccctttt gtgctgccac taacaaaaca gcacttcaac ctcaaatttt caacctttgc 300  
 tcattcatgt ccttcttcc ttactgcaa acaccaatg ttctttcca tctaactac 360  
 tagtcattct cgcaaccagg ttagtttcat gtctttcact tcccatatct ctcttctttt 420  
 gtgttttttg ttccaacaac taagcaaaat a 451

<210> 19886  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <400> 19886

agcttggttt ttcttattcg atatttttaa ttgcaaaat tgaatgttat tggagttgca 60  
 ctgtttatca tgcttgtctt gtacttaaaa atatttaact tctgcatttt ttttattcca 120  
 cagaactttt acatgatagg aagggacaag agcaggacat attggaaagt actaaagatt 180  
 gaccgtcttg atccttccga gctaaatttg cgtgaagatt ccaccacata tacagaaagt 240  
 gaatgttctg atcttttgag acggatacat gagggtaaca agtccacagg tggactaaaa 300  
 tctgtacaa cttgttatgg aattgtaggt atgtaaatec ataatgtctt agctacctgc 360  
 ctgttgacca attatgagtt actgtctgga tatactatt 399

<210> 19887  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<400> 19887

tggatgggcc ctgaatattc tagctctaca gcttgtgcta caagtaactt ttggatattg 60  
aatgcacgca accatatcat tagagggtgaa gctgcaagta tttttgcttt gatatgtgct 120  
cttaggatct taaaactctc atattaacct tgacctttac ttattgggac aaaatttggc 180  
tcaatgatgc tctctctttg tcaaaaggcg tcaacaacca agtaacatga aatctgctgc 240  
cgatggaagc tctgggtggc cagagctgat atataccatt ggatccttta tactattctc 300  
t 301

<210> 19888

<211> 417

<212> DNA

<213> Glycine max

<400> 19888

agctttgctc gtatttgtca agtgtatgga ccacgttgta gccaaagggtgc tcatcgataa 60  
tggttccagt ttaaactgta tgcccaagag cactttggag aaattacctt tcaatgcttc 120  
ccacctaaag ccaagttcca tgggtgttcg tgccctcaac gacacccgcc gagagggttag 180  
gggagagatt gacctccccg tacagatagg ccctcacacc tgtcaagtta ccttccaaat 240  
aatgggcatt aacccccctt acagctgcct gttgggggcgc ccgtgggatcc actcgggtggg 300  
agttgttccc tctacactcc accaaaagtt gaaattcgta gtggaagggc atctgggtcat 360  
cgtatcaggc gaggaagaca tcttggttaag ctgcccattcc tctatgcctt atgtgga 417

<210> 19889

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19889

ctaagcttga caaaattacc actgctgtct tctaacaaga tttaaaggga aatctctcta 60  
aagatacatc taataatacc cataattata acacatacaa aacactgaca gaaacaatgg 120  
gtatccaatt caagaaggat acaactatta acaaaacaaa tattcacaaa taataaaaga 180  
ataacaaata gacacttaaa gaactaaaat aaacttccca aatagaaaga agttcctcgg 240

caacggcgcc ataaacttgt tcgacgaccg acaagtgcac cggatcacgc aagtagtata 300  
 acacggtaag tgaataccga gtatcgaact ctcgaggaac ttgttttact tggtaaagct 360  
 gtgggttagta aataagtgtt ttgggtgaaa cttgtgtctg gtatgacaag atgcanacta 420  
 actatcaaaa gaaatacgtg agta 444

<210> 19890  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19890

agcttatgtt atggatcact gtatggtttc ctttaacctc agtctatcca taacgcaaag 60  
 aacaaacatg aagaatgcc aattacatt caaaaatggg tcaaggaatc acaacgaana 120  
 gtgtacttgg gaccttacct aaatcagtaa gttgaattga tgtttagtaa tatagatatt 180  
 atgtgcatta ttgttgcta actaatgttt ttcgtcttca aggacattg gcaacttgtt 240  
 gttctgtgtc cacgggacaa tattgttgtt tggttttgtt ctttgtgtaa gaagcctgat 300  
 gttaacatca agacaacaat gaataagtta gttntaatat taaaagtcaa ttgaaatatt 360  
 gcaattgtan ggtataaaga caatgattat ttgaatatat acgttaacg 409

<210> 19891  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19891

ctcagcttct cccccaattt ctataatagg gggagaagtg aagtttatna gggttcagcc 60  
 ctcttggtta ttaaaatcac ttanaattag tgagaaaaat tggtttcgtg aagaaaatcc 120  
 aagccgaggc gctttcgtaa cgtttccgtg gatgatttcg cgaaggtttt cgaccgttcc 180  
 tcgacgttct tcattcggtc ttcgccgttc ttcggtcttc aatccggtag ttccctagat 240  
 cgaacttttc aattcattct atgcaccctt agtggtcctc atttgttttg cgtgctttca 300  
 ttacatata atttactttt cggccccctt ttgcatgctt aagtcatttt 350

<210> 19892

<211> 314  
 <212> DNA  
 <213> Glycine max

<400> 19892

agcttatatt gattctaaat cattcaaccg aatgccatac atgtactcga gaacaatgac 60  
 tttgtctgca gactataata ggaagcaacc agattatata aataagaaga attatggcaa 120  
 aaagataaac gagtaggaat taacacgagg cgcattgatt ttgaaccgt agcaaactga 180  
 atgcaccaga cacttatgca accactggaa attgcactac acatgatata taaacacatt 240  
 aataagctaa tcagcatata attatggaga aaattcattc ttttacttgg tatggcacct 300  
 tgtcgggaaa tatg 314

<210> 19893  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 19893

tcgttgtgat gctagagctt agctactttc tcccatgttt taactaagct cacctgcttg 60  
 agaagctaga gcttagctac acacaccct ctaataacta agctcacctc cttaagaaga 120  
 gaagctagag cttagctaca caccctata atagctaagc tcaccccat gactaaatac 180  
 atgaaaatac caaggaaaaa tgctactgca aagactactc aaaatgctct gaaatacaag 240  
 gctaaaacce tatactgcta gaatggccaa aatacaaggc ccacaagaag aaataaagcc 300  
 tattctaata ttacgaaga agagtggagc caaccttgac ccatgggctc agaaatctac 360  
 cct 363

<210> 19894  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19894

agcttgattt aagaaaatta ttaattaatg taaggttaca aaataagtag ggataattaa 60  
 gggtgattaa tgacgatcta gatttcatgg aattagaaaa tgggtaatta agtcacaaga 120  
 gtttaaaatg gagggcattt ttgtaaatga ctatacaact agtttaaaaa tagaaattta 180

gtttaattag ttggtgacaa attaaagtgc ctgattatac aatgtagaat aattaaaata 240  
 agttagagtt gtaacaccct gaaaaattac aattcagatt gacagagaan actctgtgtt 300  
 gtgtcatctg tgcattgtant gaattaatat aagtatttat atgctnttaa tcatagaatn 360  
 ttgtgttatg tatatatgtg tgtgtgtgtg tatgtgtgtg gttagttggt ttaataa 417

<210> 19895  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19895

tatcacccgt atcagcgatt gaagaaggtt ttaatgggtt tcaggaaaat gagagtgcgt 60  
 ctaaaccatt agctaggaaa gaagtttatg atcaggttaa ggacatcgta actatctttg 120  
 ggaagaccca aaagaagcca tcatctgaga caaacatacg gaagaaaatg tcaatattct 180  
 tttatcttcc atattgggtc gatcttgatg ttagacattg tatagacatc atgcatgtgg 240  
 agaaaaatgt gtgtgatagt ttaattgaca ctcttcttaa cattaattga cactcttctt 300  
 aacattatac gaatgttctc atttctcagg ggatcattgc agcaatagta accacaaaaa 360  
 aaaaactatg tttgctgata aaaaaataga aatcaaacag caattgggtt gctttattnt 420  
 ttcccatcaa tca 433

<210> 19896  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19896

agcttaatat tcactaccat ataatatgtc tggacatata attatatgat aaaacttgtc 60  
 tttgagctta ataagtactt tgcgctcaaa taatcttctg tgtttttttt catttaagtc 120  
 acccgactat atcctatgtg tgacattctc attaatcttct tgcgtatctt gtataattga 180  
 tcctagatat ctaaacttag agacatgtga tgtgagatct tcccccaatt ttattaaagt 240  
 ttcaattaca ttttttttct aatttaagga cttaaatgaa ttacactttc ttatgcagga 300  
 gacaatcaat gtagactatc agtatagctn tggtcacaca ttntaaaata aaactagata 360



aaatacacta gatcccanac gaatgtatgt aaactntntt gagacccttg atcttattag 420

<210> 19897  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 19897

aaaatcagtt gtgaatttga ggggtgagtt ttgaatttat tcttttgggt taaattttta 60  
aaaagatggt acaaattgaa tagtaataaa atgagtcaac cattttatct tatctcgctt 120  
tactatggca taatggcggt gacgatgggt acagtggcgg tggaaagggt atgctggtgt 180  
ttaaagcta gagcagcttg acacgacctg aagatctggt caagtcgggg taactatgga 240  
tcgaccatgc attaaatcta ctacaaccga gtacaaccta accaggctcg ggacacccaa 300  
gggagaaaat 310

<210> 19898  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19898

agcttctata taactggtct cccattggag agggattagc tctttagtct cctttctagg 60  
gatctagaca atagatgggt tttcttcttg gttgttagcc aggacaaaga gagcattgtc 120  
atgaatggta ggcagagaca gattaacagt atagttctgc aatctatata tgatctgatg 180  
atgcaaggta gcagaatggg cctcaaatac ttgttcaact ccagtgatct agctntaaac 240  
tttcatectc tgtgggagag tgggatcttt caaactgatg ttagaatttg ggaaaatggt 300  
gagaactata cttccaacat ggagactagt caatttgggt ctgatcatag cattntcata 360  
gtgaatgtaa ttggagtcta atagagagac tctggcggtt acaagtagtc ctctt 415

<210> 19899  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19899

ntacagtctt tgactgtatc cgagcatagt ctactaatg tgtccactga tctggcacct 60  
ccactaatag tccatgacta ttagacgttc ttgggcagca cctcaactct ctagcacctc 120  
aattggctct atacaacctg gctctagata ccaaattgta ggaagtaaga aaacaagcta 180  
aatattctac tcttacacac tcatatttga aggaagaaag agagctatag aattgattnt 240  
gattcaattg acacacacac aaagcagcgt acatgatctg cattttatag gcaagttctc 300  
ctaaataaac tattacataa ataaagaaaa ccactagac taagtaaacc aaaaagaggc 360  
tccgactgga aaaaggtgca ttgttgatgg tcataagttg caacttactg cagctgtata 420  
aaacaactat gcag 434

<210> 19900  
<211> 443  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19900

ttattgtttt acacaacagc gccgaggata ggtagagtcn ttgacacttc accgacacct 60  
tctcacaatg atgtctgac gccatcggaa atggacatac atatgcctga tatatacaga 120  
gactgcgaga gcatcatgga accatgaagt gccttgctgt gccttttctg taagctcaaa 180  
tgactatcac gtgactactt atggtagtat actaaatcgc ataagaaaat atgacgagtc 240  
ctcatgttca tataccacat gctaagacac acttctgtga acgaacgac tagacaatat 300  
tcttcgatga tagacccgc tgggcattag caagagtacc aggattattc tgggtgtagat 360  
caggttcact tgctactagg tgtaagcgtg aagcatacct tgttttattc gatagcttta 420  
acagtgactg aaagatgctg ggg 443

<210> 19901  
<211> 419  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 19901

gggggacatg antactatgc gggctgcata nacgaagtgt tttgtccatg aacaaaaggg 60  
gttctatatg caaagcttct gctttgctg aagatataaa gggcatataa acaatttatc 120

cattatactt tcagtttagcg aatatccaca ttctcgacat aaatccggat attccttgaa 180  
 gcgtagtaaa cagacttcca ttcggatatg tagctogaat agctaattgct atactcctat 240  
 catgagtcca tgaattcagt ctctttgctt cactcttact tccggaacct tggaactaaa 300  
 ttacggcctt gaatattgat ttaatccatt gaaccttgac atcgctttga aggtctgtga 360  
 acttcaaatg aacaagactc ttggcaaagc aaaaatctac tgattgcgag cgcgtagcg 419

<210> 19902  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<400> 19902

agcttcctta tgaagattcc taaagaagct agagcttagc tacacatacc tctctaatag 60  
 ctaagctcac ctcttatga tgagaagcta gagcttagct acacaccccc tataataact 120  
 aagctcacc ctatggcaaa atacatgaaa atagaaaaaa aaaatcccta ctacaaagac 180  
 tactcaaaat acctcgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240  
 aaggcccaaa cgaaggaaaa acctattcta atatttacia 280

<210> 19903  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 19903

tatagaatat ataataaaag aaaaatgaca attgaagagt ctatacatgt ttcctttgat 60  
 gagtctaatt ccattcttcc aaggaaggat tttttagatg atatttcaga ttccttagaa 120  
 gatacacata ttcattggaaa tgactctaaa gaaaaagacg aaggaagcaa tgaggattct 180  
 caagataatg gggctagagg aaataatgaa cttccaagag aatggaaagc ctcaagagat 240  
 catcccctcg acaacattat tgggtgatata tcaaaagggg taacaactag acattctctt 300  
 aaagaattat gcaataatat ggcttttgta tctatgattg aacctacaaa tataaaagaa 360  
 gccatagtag atgataactg gataattgcc atgcaagaag aactgatatc aattgaagaa 420  
 ataatt 425

<210> 19904  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19904

agctnttgtg tgaaaggatg tgactcttca catttgaatt tgaatttcaa cgttcaaagg 60  
 tactggtaat cgattaccaa aacattgtaa tcgattacag ccttttgaaa ataattggaa 120  
 cgttgtaaat tcaatttgaa aactttntca aaacaatntt gctactggta atcgattaca 180  
 acaatctggg aatcgattac cagagagtaa aaactctttg gtaaaagggt ntgtcaaaaa 240  
 ctcatgtgct attcaaagtt gtgaacaact ttntaatact tatcttgatt gagtcttctc 300  
 ttcacctctg attcttgaga tcttgaacct tgaatcttga ttcttggtct tagactttct 360  
 tcttgagtct tgaattcttc ttgattctta ttttgaactc 400

<210> 19905  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19905

tgtaatgagc ttcataacaa agaaagggaa acataggctt ttagggctat caaagggtt 60  
 aattcaaggt aaatccattt ggctagaggc ttataagaac aaaattgcct aaatcatttc 120  
 caaatatgca tgtgaattaa gaagcatcag caagaatcaa gccaaaggcta ttgtgcaagc 180  
 aatcattggg gcaaaacaca ccaaattgatt atgatgatgg ctcaaattct caciaaggta 240  
 aacttatcac ttccaaattg agctttcaaa actatcataa gcgactttta ttttcaaaac 300  
 aattactcat tacttgaaca tctctataa ttcaaagaan aatatngcaa agtgtacaag 360  
 caaacagaat tgacctaaaa tattaaacta gaaacccaac aaactaacia cattaacaaa 420  
 ttaacacaac 430

<210> 19906  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 19906

agcttgcaac cttagaacat ttattgtttc caataagcaa ttgagcttca atttccttaa 60  
atctctcaca tacggataaa agaagttgaa ttcctcatcg aaagtctctg tagtataatt 120  
cattatctgc atcactccta agtcaactca nacttattta tgaaataaat caagttaaaa 180  
ccttntaaaa atctatttag ttacaaaaac aaaaacagtt ccaaactata ttaaaaaaag 240  
ccgaaatgat cgacgaaggt ttgttaaaac tagaaaatta gtaaaataaa tcttcgaaca 300  
tatgtgacaa gtatagggtc tgtcaaaaag aatagtataa atacagta 348

<210> 19907

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19907

tgagaatagt acattatagc attaaatctt gattattatc ttatgcagat gataaattgg 60  
ttttaataaa gataatcccc gtacacacac atgataaaaag aatagaaaac attgtgctnt 120  
gtagaagtac taaaaccaca ggaaaatata gagaagctag gactaagaga atgaaagcca 180  
aagtacaaaa gttttgtatt ataaccctgt atttctttac ccttcattta ctttttgcca 240  
ttttagtaga acttttgaga tatgaggatt atttttaaca ctacacttta cagcaacagg 300  
tatttcgcag tacaaagtgt tgtcctgttc tataaggatt actgaacaca ggaaagcatg 360  
agccttaaga tcaaatcagc ttaatgtttt ggtagattt gagtg 405

<210> 19908

<211> 372

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19908

agctntacaa cttgcttctc tacctcacgc cgctactctt gcctgactgc aagaggacaa 60  
gattaatgac cgccgaaaac actctcggac ctcgtttctt tccccacaac aaccagcttc 120  
agcaccatcc actcaaacc aaacacctcg ccctaagact cctttcatac agcgtactca 180  
cgaagagatg acctatatgc gcgaaaaggg cctctgctac aactatgatg agaaatggaa 240

cttatcacac cgtattaagg gtogagtctt gttttcattg cagcctctaa tgatctctcc 300  
 cactccgaca tagctctgct ggaagactca ccaccctac ctattgaaca ccttcacctt 360  
 ttgaccaca cc 372

<210> 19909  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19909

agctntgggt tcttctattg agatacttga tgcaattagg gtttttctct acttgaaatt 60  
 atttttgtgt tctatgttga aggcacaaat accaaacacc aatgtctccc gagtttggcc 120  
 taattcaagt taaactttgt tcttagatgt ctcttggtga acttagccta accgaacagc 180  
 attacaatta cagcatgata aaaactaaat taccacactc tgtgttcggc agttcgataa 240  
 cctagcccta ccctatccag ttctaaggat gcagtacatt atgcaatact aaagctccta 300  
 accttacaca caaatgggtg atcaagccac gagcatgcat aacataagca cagatagaat 360  
 aattgaacac ataaaaacaa cttcaaatag atagtaataa tatt 404

<210> 19910  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19910

tagttgtaaa ananattaaa gatctttntc ttatctttcc aggttctact cacacgttcc 60  
 atttggagtt ctttagtgtc ttctaggctt gcacaaggca gatagggtcaa gtaagcacia 120  
 aatctaaaat ttaactacaa ttctcaatta agctcaatca ttgccttag accaaaaccg 180  
 agttaagggtg agaaaataag ggtcaaagag atttcaattg acctaagaag aatagaaaaa 240  
 tattaaacta caaatactca atcaaattcc cccacacttt atcatttgaa ctcatgggaa 300  
 aaactaaaag aaagattaag ataaagaaat caaacttaga aaataaccac actaaaagaa 360  
 ggtatgaaca aggtgtcgta acctaccctc acgacgggat ggtgaaggcc aacgtagata 420  
 gaccacagtg ttcattctct agggagaaaa cgcgtggagt cgccaccaac a 471

<210> 19911  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 19911

agcttgaatc ttctacccta tttctgacag ccagtgggtg agtccagtcc aagtgggtcc 60  
 taagaagata ggcctcacag tgatcaagaa tgaaaaggat gagcttatcc ccacaagagt 120  
 gcagaacagt tggcgagtct gcattgatta taggaggctg aattaggtaa ccagaaaaga 180  
 tcattttccc ttgcctttca ttgatcaaat gcttgagcgc ttggcaggta agtctcatta 240  
 ctgctttctt gatgggtttt ctgggttattt acaaattcat attgctcttg aggatctaga 300  
 aaagaccaca ttcacctgtc cctttggcac ttttgccat atgaggatgc cctttagcct 360  
 atgcaatgcc cctgggtacct tccagcgggtg tatgcttagc attttcagtg actttttaga 420  
 gagtcgcata gaggtgggta tggatg 446

<210> 19912  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 19912

ctaagcttgt gaatgcctgt tggatgatat acatacccat tcttttatgt ttttgtgatg 60  
 atgtttatat gctgaaattg cctatggaaa ctgttagaga tgaagggtag agttaaccta 120  
 ggggttagaaa gtgagaatgt ggtgttgtga gtggaaaaag agtgaggctt tgagagttgg 180  
 aaggctaagt ctgaattctg tggtaaattg aggttaaaat gagttaatcc tagcttgaaa 240  
 tgtcatttac aacatgtgac aaagggttagg ttgtgctata gggaaaaact aatgaccaa 300  
 gtgaacaaag agccatttct ggggcacaat tgggtgttga atagtcaa atttgattcgg 360  
 tggaatttta ggtgtaaata cagtatgggc aagtctatat tgatgttatg gactgggtgtg 420  
 aggtgagagt ttgcctcata tctacctcat tctaaatctc acc 463

<210> 19913  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 19913

agcttctagc ttaatgctct taccttgaat taattccttt gatagccctt ttgagccttg 60  
tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatatacc 120  
atataccttaa ggaatttttg agcttttgaa ttgttttggg aataagtgtg ggggggtttt 180  
gtttcattgg ataacttggt ttgttggtta tgcttcatga tgtattttgg gccatacttg 240  
atgtacactg catattggtt aaatgttgga catgctgaat caaatgttgt ttctcaaagg 300  
ctatagagta aaaaaaaaaa aaaattcaaa aaaaaaagag aaaaagaaaa gcaataaagt 360  
tgagtgaata agatcttana tggcacaaga atcatgaaac tctttggtat actctctatg 420  
tctaaattnt atctttactt ctt 443

<210> 19914  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19914

tctncccaaa,ttntctataa atagggggag aagtgaagtg naaaatgggt cagcccctta 60  
ggcactttct tctctttcga atntgcttgg aaaaattgct tccgtgaaga aaatccaagc 120  
cgaggcactt ccgaaacatt tccgtgagga atttcgagaa ggtttcgacc gttcttcgac 180  
gttcttctct cgttcttcat cgttcttcga tcttcaacgg gtaagtacct cgaaccaagc 240  
ttttcgattc attctatgta cccgtggtgg tccacattgt gtttcgtgta tttttattct 300  
cgtttcattt gctttntata ccccttttg acgtgcttaa gccattttat ttaagtcatt 360  
tctcgcttaa cctaaaaata aaataaattt ccaccgatcg ttgaattta ttatccgtta 420  
acttcngtta aatg 434

<210> 19915  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19915

agccttatag atgatacaag atcatttaga tcaaacatgc actgtttctt caccagata 60



gattntaaag atccttaatt atgatagana taaaaaaaat ccttaattat gatagattnt 120  
 aaagacaata tgatattaca ctnttagtgc ataattattt ttctcgaagt aaattaataa 180  
 taataatctt aaaaaatagg acttattcaa aaatgttttt ttagttttta gttatgaaaa 240  
 anagaccaa ttcaaattaa aaaaaattga aaaaattgaa natataatta aacttaaagt 300  
 ttataataac acaacagtag tatataactt atantttccc tctcgtctta ccaatcttat 360  
 aaatatattt tagaaatttt tttatcatat cgtaaatccg tgcataaag atccaatgac 420  
 tagtgacctt t 431

<210> 19916  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19916  
 gtttgagatt ntctcactgg taatcgatta taggattcta gtatttgatt acatagttat 60  
 atgtttgaag agttatgact tttcaaagg ttttttttaa aatctcttca atgggttatca 120  
 attacaggat tctagtaatc gattactgat cgaggccata cccgaatcaa ataaacatta 180  
 aaaatacagt atctaggaag tgatcctagg tcgtctcccg acgagcaagg gtcaaacaaa 240  
 cgttcataac agatagtagg aaaatattaa cgaattgggg gggggggg 288

<210> 19917  
 <211> 195  
 <212> DNA  
 <213> Glycine max

<400> 19917  
 agcttgatg attcttagtt gttcgccaga tacaccgcta tctctgacgg aatacacacg 60  
 tgagcccatt tagaggaat agataagatc atcgcggtta gaatggacat gtgtagagat 120  
 actcacagga tcagatcgcg atttattctg ggatatctat tgtattgtga tgcttcctta 180  
 atgatcatta ataca 195

<210> 19918  
 <211> 261  
 <212> DNA

<213> Glycine max

<400> 19918

aactaagctg gggatggctg cattcgacaa agacggaagt gcccactact ttgcttgata 60  
aaacaatggc tagaccacaa cagcgctgga ggcggcaacg gacaagggac tgacaaaaaa 120  
attatgtaga catgaacaaa caatagatca tgcgcagagc gtgccaggtg aaccaagaga 180  
agcactgaac aggtgttaga ccagctacaa acaatgtgcc tgagcaaaac gaaaacacaa 240  
aacgtgaccg acacagatga t 261

<210> 19919

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19919

agcttggttaa atactaaaaa aaaagtttaa taaatatttt aatgataaga aaagaataaa 60  
atataaaaaa ttagaagtca aacattttta aaaagtgact tcaatgacat ctttaaaaat 120  
gtttattttac ggaacagtca actaaaattt ttaattatta aaaaaatcta gaagctaatt 180  
aaaatatatt ttgaaacata acctaactaa atcaacatat ttttagaatc ttgatttagt 240  
ttgtatcata tttgaatttc tcttaaaaatt aattttatta cttatgtttt gggttaaattt 300  
gagtctaaat aagaagcgat cataaatggg ctgctcttaa agtattcttt atttatatan 360  
ttacaataga aacatgaaat agaaataatg ttaattggta ttatctaaat aattatcatc 420  
ttatcaacat ctttataaca aa 442

<210> 19920

<211> 352

<212> DNA

<213> Glycine max

<400> 19920

gctcattatg ttattgttct ttcaaagtat gaacaaacac tatgattgtt catgatagag 60  
cattacagca tataatatat tattacattt ctgaaacgac atacaacttg tgggtgttacg 120  
atgggtgcat agccaaggcg atcctttgct tttgagcaat caaatgttct gctgcaagat 180  
atgagtctta ttcttgaagg aatgagttga ggcagctcca tcccatatgg gcttagcaac 240

ttatatatgc actccaacca atgtgcactg ggcataataa caaaagtggg ggatctttac 300  
 ccttggccta taagcaacat gacttagatt acaaagaaat ggcattgaca at 352

<210> 19921  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<400> 19921

ttgcatgcaa gcttctactt tagtgcttgg cgggctgcct tcactttggt gtctcgtacg 60  
 cgagctttga ccactattct tccttaccga gatgcttctt ttcattctct gctgagcggg 120  
 cttatagcct ataccatact tgccatgata tacttgcggt ttataaacgc tagttatgcc 180  
 gtcgttgtct ctgtctaaac ccattccatg ttcgtaaccg tcccccaact taactcgggc 240  
 catcattact gctgcatctg acatactagg ttgcccataat atggagttca ccgatgaaat 300  
 gctgaccacc tcaa 314

<210> 19922  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<400> 19922

agcttagaat tattgagata tcattctgtgc gtttcatgga cccaggagcg gactttgact 60  
 tcagtttctt aattcttcaa ttgtatgttt aagtttgaaa caattttttt ataaaaaaaa 120  
 agaggggaaaa gacatcaagt aacgcaattc tccttggaata aaagtcaaga ttctgcacta 180  
 ggtctacata attcatataa actattaagt taaatgacaa aatatataaa attatgaaga 240  
 aacaccataa tataataaaa agagtaccac attcatacat accctcatca acatcaacag 300  
 caaccacaag tttctgggat aatcgatgat cactgaaaca aggaggctta gcaggacttc 360  
 catttataga tccattatca accttaacca gagtagcatc actctcatca ctcttaac 418

<210> 19923  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

[illegible]

<210>	19924
<211>	375
<212>	DNA
<213>	Glycine max

tctgctttaa	tgtttatgtc	acattagaga	atgtcaaata	accatatcan	attatggaga	60
tttgtgatatg	gtattgtaaa	tgacatctct	ggctagagtg	gctttgatta	ggatgacact	120
aagtacatga	tcacagttga	gaataaaaaat	gcttggaatg	aataatgcat	tgtaagtatt	180
cttttatata	tttctatctg	ttattcacia	ctgattagat	ttgactttgt	ttccagtcac	240
ataaatcggc	taaaccgttt	cgattcaaag	tgcttcacia	ctgggatgat	atagtggatt	300
tgtagcgtaa	agatagagcc	actggtcatg	gagctaaaac	tgctatggat	atttatgaag	360
cgatgagttg	agaaa					375

<210>	19925
<211>	468
<212>	DNA
<213>	Glycine max

ctataatact cagcttgagc caaagggaaa aagaacttag ttattcaatg tactctcctt 60  
aatanagtgt gttcaatgca aagttaccac tctattccat ccaacottga ggattgataa 120

aaccattatg ataagtcttc attaaaattg ttcttgaata ttgcttccat ggtctttgaa 180  
gataagtcct aaccggggtt tgaaccggtc tcacatctga ggcagctgtg actcaagaat 240  
tgcaattga aattccagtg ttttggttg gatcagttct gccttgtgca gcgatgggtg 300  
tgactatgtt gggagggtt cttgcaagg gttgcaattc tgtaacacaa caacaacaac 360  
atgctacagg agatttncat caacttcct gccacacgcg tttgggtaac aacaaaatga 420  
taagtcaact aatagccagg agattacatt acactttcac atgcacac 468

<210> 19926  
<211> 438  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19926

agcttcccgc ctgtgtcaat ggcggcacc acgttcaaaa gtgaccccc cccccgtaa 60  
tttgttttaa aataaacct cttccgtaa tagttttcaa aagcatcccc cttctgtaa 120  
tttgctcgg tgtgaagata gtctagtatt caagcataga tagcaccata atcattgctg 180  
agagaattct aaaaatctcg gctaatacca accaattttt atgtcaaaca accaatctga 240  
caattttcac aatatatta cattttcatt aatgttaacc aatattattg gcaaatgaac 300  
aattgtgtga aaaattaact ggattctata cattattaga tttatgattt ttgtttctaa 360  
attaaaataa agactgttct ctttaattata tattttttat ttttatgatt canaataaat 420  
aaataaaaac ttaagaga 438

<210> 19927  
<211> 463  
<212> DNA  
<213> Glycine max

<400> 19927

catccaaagt ggcattcctt gtaccaccaa attcctaact cagtttcctt taaagtccta 60  
ctaaattagt acaaagtaac atgtaacagt ttagtgagta attcaacatt gtacataata 120  
agtgctctg cctgtaaaat ttttaaaaac atatacatat ctaacatgaa cttaatcttc 180  
atctcaagat gtgttgagta ctatatactt atttatgaaa gatgcaaaat tcacccatgt 240  
taatttgga gggactatag aatgcaagat tgtttacaat cactggagga agtctgcaaa 300

gattggttct ggatggaagt cttttacaaa ttcaaaaaat ttggaagcta gccaggatat 360  
 tatatttgag ttcccaaata caaaatctaa ctctgttcta ttctgcattt gtttgtaatt 420  
 taagtacatt atactctatc aatctctata aacttatggt tat 463

<210> 19928  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19928

agctnnggat gttctntggt gagcttatna gtggaacaga tagatgaaga ggctgaatcg 60  
 ttgagaaagt ttggataaac ataacttgag gaatcagaag ctgatgatgg aagcgaaaga 120  
 aagagcgga cttctgggag agctgtgtgt aattgttgac tgtcacattc tggtttagtg 180  
 attcaactgtt tctttggctt tgctgcatat ctgactntgc taatttgcatt gttgctgaat 240  
 ggcgattcaa gtcattgtnt gagaatttat gatgaagagg cacaagcaat gtccattcgc 300  
 gcgagctgga aaatgctaata gcagttgggg aagccatcct ctctacaata catggacaaa 360  
 gagatcgctt gaaggtatat cttaactgct gccttcactc atcaaca 407

<210> 19929  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<400> 19929

tctccctttg ctgcagtggg tctctgttag caggcaaaga tgcttttctt tccatgtaaa 60  
 tacatgcatg tcattgaacc atcaattaac acacatacat aattgaattg catgatgaaa 120  
 gattaagaga cattcaagca tggctatccc acggtgcaca tcttgtgggt gtttggagtg 180  
 aacaagagcc catgataaac gcaggagaca gtcttgcata tactcttgag atgattgttt 240  
 ttctgcctcc aagacctctc ttccacatcc ctgccagtgc agtgccacac acaacaacaa 300  
 ttaattaatc aattgcaatc tcaaactctt aaaaccctaa cagagaaaga gcatatgaat 360  
 atgaaacata cagctacgac gtcagagtca caataaggaa gatggtcctt gccggagaag 420  
 aactgaccca ccgagtcctt gatcatcctt agcttggctt caagtttcgc catttcta 478

<210> 19930  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19930

agctncgaat gtattattat tctntaagca tgtctgtaac atggtttgtg cagtgccttg 60  
 aaacttcaga atgggccata tgctntcgaa gatatgataa agatgggtag gatgctggag 120  
 aggagcttct ttttcgagcc cgacctgtct tnttcagtcg ttaacatcca ccacattaat 180  
 ggccacacaa tactgatcat gaggggtgacg gcagctcttt cagtgactgc atanangtat 240  
 gtctattctt aaccatgtgt aagactaaat atcagctgat ggaaaataac cactcatatg 300  
 gtcaattgtg a 311

<210> 19931  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19931

cgctgatcct aagagtaata aaatcaaata gctcacaaca acagtttgaa tcnctgctt 60  
 actactgcgc tctgcagtgg ttatatttcc cctttcaaaa gagacaatgt cgtgtttgta 120  
 ctgatcactt tgatcacctt tgctgaacca tgagagttaa aatgaagcct gtctcgataa 180  
 taaagaaaat aattaaaata aatttgctta agtaggagta aatcagagta tatacattgc 240  
 aatttttagca atagaaaaga ggaatatgtc tttgaagtaa aaatgggtaca agatgtctta 300  
 ccacagattt ctaagttcaa atacatggga tcaataatac aagatgatgg aaaaattaat 360  
 gaagatgtca cgcaaaggat acaagcggga tggataaaat agagaaagga gtcaacgggt 420  
 atttgtaata gcgaagtccc taccaataac anggcaagtt tatcgtacta ctatacg 477

<210> 19932  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19932

[illegible]

acttgatatt ttaattttat aaataccgga atgtgcacat gtgcatattt tggtagccca 60  
aatgctttga gtatgcatgt attgtaaata tagctaagga agtgcattgt atgtacgtag 120



caaatacacc ttggaagtac atataaataa tttaggtaac ggatgtgcct tgattgtaca 180  
 tgggtgcatg tttattagtt ataagaatgt cttgtgcaag tgaacgttcc taaagaagta 240  
 tgtgcataag tatgctctaa atttacattg atgtttgtag ttattggagg aggttgtatg 300  
 ccatatttgt ttttaagagta tcatttcttg gtaaaactaa c 341

<210> 19935  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<400> 19935

tgctgacgag agagtacgac aatgtggata tgatctccat gctattgtaa gcgccacagg 60  
 actaggacta tcacttgcag atgatcatca ctttttataa gatatatcta tatcatatac 120  
 gagttattaa atctatgagg aagaaaatga taatacttga ctgcgtagta tatgaagatt 180  
 aatatatact atggggggcg tgggaagtgt acccatgccc gcaccaggat taatcttagt 240  
 tatggaacat ctattgcaag ctattcaaca atataaaaac aaaaatttat tgtacactta 300  
 attgacatat gactcgagta ataata 325

<210> 19936  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19936

agcttgagta tttctctctg atagagaaga taaatagctt gggaagtctt tatcctcaag 60  
 cttgagtgag ccaccgtagt gtagaagcaa atgactttga tgttttgatg atgatcatga 120  
 tgatttgatg catatgatgc aagaatacaa gccacaacat caagatgatc actagtattt 180  
 taggaagggga attcctaatt gatttagcaa aagggttggc caagtaattt gagttaaaaa 240  
 gtgtttttca agagatttac tctctgggta tcgattacca gaggatgtaa tcaattacca 300  
 gtggccaana atgggtttaca acagctacta aatatttgaa ttcaaatttt agactgtgta 360  
 atcgattaca ccatattggg aatcgattac cagcagttaa taaa 404

<210> 19937  
 <211> 391

<212> DNA  
<213> Glycine max

<400> 19937

caggttgagt tctgcttacc acccacagac tgacgggtcaa accgtgcgtt ctattcaatc 60  
cttaaaagaa ctcttgagag cctgtgtgtt agagtagacg ggtacttgga atagtttctt 120  
acccttgata gagttttacat acaacaatag ttttctactcc agtataggta tggcacctta 180  
cgaggcattg tatggtagaa gatgtaagac acctctatgt tgggtagatt ccagtgcgag 240  
cattgcctta cgacctgagg tagttcacca taccattgaa aatgtcaagt tgatccaaga 300  
taggatgaca gcagcccaaa gtatgcagaa cagctactat gatcagagaa gagaggatct 360  
tgaatttgct ataagtgatc atgtatttct g 391

<210> 19938  
<211> 348  
<212> DNA  
<213> Glycine max

<400> 19938

agcgtgatct tcacgtccg cgtgtatgat attcactcca caagggttga agtagaggag 60  
accttcaacc ctataacgca acgtgacgga caaaagtggg cagttaactt gaatggccgt 120  
tattgtcaat gcggaagtta ttctacgctt cactatccat gttcacacat tattgcagct 180  
tgtgggttacg tgagcatgaa ctactaccaa tatatagatg ttgtttacat gaatgagcac 240  
atcttataag catactccgc acagtgggtg cctcttggga atgaagcggc aattcctact 300  
tctgatgagg catggacact aatccctgac ccaactaaga ttcatgcg 348

<210> 19939  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19939

caggtagagt tcttcttacc acccatagac tgagagnctt tctgcgctc cattcaatcc 60  
ttagaggacc tcttgagagc ctgcgtgtta aaatatgggg gtagctggga tagtttctta 120  
cccttgattc tacctacaac aatagctttc actccaatat aggcattggca ccttacaagg 180

agctgtatgg taagagatgt aagacacctg tatgttgggt aaataccagt gagaacattg 240  
tcttaggacc tgagggtggt cagcaaatca ctggaaaggt caagctaatac taagaaagaa 300  
tgagaacaac ccactgtacg ttgaagagct accatgatac gagacgaatg gaccttgaat 360  
tctccgtagg cgaccatgta ttcccgatag tcactacata cactggggtg gtatggcatt 420  
gaagtacaca tagctcacac ctag 444

<210> 19940  
<211> 379  
<212> DNA  
<213> Glycine max

<400> 19940

agcttcttcg ttgtgtcaag cggaagaacc ttcttcacct tctttcgctg gaacttgcg 60  
aagaaccatt tcattcttct tccgcaagag cccgcggaag aacaccttct tccgctacaa 120  
taccacaagt ccactttcac acgcacggaa gaaggttctt ctgcggaag aaccttcgtc 180  
ttcaacctca agcaccaaac atcacctatg tgcgctatcc tacggccatt taagcgattc 240  
aactgatag gaggttagaa cactaacctc gatggcgaaa gaagaaggga acgaaagcct 300  
atggaggaga agaagggaac caaatgtgaa acgtgctacc aaatgacgaa gaaacgtgct 360  
accaatgaa acgtgctac 379

<210> 19941  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 19941

tagaagagac agttgttgat caataatgcc aaaatacttt attataacat tgggaaacta 60  
aaacatctct tatttaaaag aatgcagatc tactatgacg atgattaact acaaaaaatc 120  
aagatgaccc caggtaagaa atatatacga tggggagaaa aaaacaacag aaaatatgaa 180  
tccttctata ttctacatga aaccgattaa gagtgcctgc agctattagc cgcaacaac 240  
agcaagacta atatatttga tatatagtct atatgcgata gtgaaagtgg gaagagcata 300  
ctataggtta tgtgtatata ctttttgatg aggactatag gttatatata tagaaagaga 360  
cagcatgcgc gaatatatat tggcctcctt ttatataaag atggtggcca at 412

<210> 19942  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 19942

agcttgtcga ttttgccatg tttgggtgag atagacatac ccattctgtt ttatgggttt 60  
 tgtgatgatg tttgtgatgt ttatatgctg aaattgctga tggaaatctg ttatagatga 120  
 agggtagaac taacccaagg ttagaaagtg agaattgtgac gttatgagtg gaaaaagagt 180  
 gagactctga gagttggaag gctaattctg aattctgtgg taaatggatg ttagagtgag 240  
 ttaatactag ctagaaatgt catttataac atgtgagaaa ggttaagctg agctatagag 300  
 aaaaacaaat gaccaaagt 319

<210> 19943  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 19943

ctcaactgaa tttaacaacat tccaattgat ttcaaaatgg tgtattttat tacaatgata 60  
 tggtaatcga ttaccagtgt gtttgaatgt tgaaattcat attcaattgc gaagagtcac 120  
 atcctttcac ataagtgtg tatgtaatcg attacaatga tttggcaatc gattaccagg 180  
 gatgtgtttt gaatacaaat cactagatgt aactcttcca atgggttctca agtctctcta 240  
 aaggctataa ctcacttatt ggccttcttg acctgacttg acgagtctat ataaccaaga 300  
 ccttaacttg cattgtacac acattgatta caatcttata taccctttga atctctttga 360  
 acctctctt gaatgtcttc ttatcttctt ttgccaaagc tttctaaagt tt 412

<210> 19944  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19944

agcttctaata gtataacaaa gtgactctat nttcagggtg aatcattacg ctgcttgtcc 60  
 tgaaatgact ctgaatgatc acaacttgat tgggtttgga gaacacacag acccacaat 120

catctctctg ttaagatcca acaacacttc aggccttcag atttatctta gagatggaaa 180  
 ctggatgtca gtcccaccag atgacagatc ctttattatt aacgctgggtg atactcttca 240  
 tgtacaacat aaagcatgct attgacgcat actaatgagt tcaatgaaga aattgtcatt 300  
 ttctttctcc ttatgactta cgtatctcta tggataagta taaaataata aatatacaaa 360  
 ctctcttttt aagt 374

<210> 19945  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19945

tgtaataaaa tgttctaact attataggat aaagtgtaaa tctatttttca gcttgagaga 60  
 tgtgtcagaa ttaccacagt ctggaggaaa ttcagatgaa ctgcaggtaa atgactcgta 120  
 tggttgcctt tgttctcgta cgaagctctg tacataaaaa tttctattac attatttaca 180  
 ccagttattg ctaagtcata aagtatctct atcaggaagc tegtggacca gaaataaatg 240  
 ggcaagattt tgaaaggcgt aaccacctgc ttcaatttct ggttctcttc cataagtttg 300  
 gcttccttca cgagcaacat tgccaaacat cattgcagaa naaggttgtg tgaatataga 360  
 tagatgacaa attgcttata cgctgtatta ttatatacaa canaataaaa tacacattnt 420  
 taacactctc attttactat atataac 447

<210> 19946  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19946

tctagctttt cgatatccca ttattttggt tcatthtcat tctttcaaag ctgatagtca 60  
 tatgtcatta ttaattcaat tntgatggaa tatttgtgta taggagatgt gtttaggaat 120  
 taggatgcat tcaaatatat attttcatga tttagaccct atttatttca cgattcaaag 180  
 ttttccaaaa cacgttttta cagacaattt tctcgagtc aaaattttcc acattctcga 240  
 atccaattat ttatgtacat tctcgaaaaa ttttatgtac attcttgaat ccaattattt 300



<210> 19949  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19949  
  
 cgtgaaataa gagtatcaat atatatgtac acatatactc tgcttgtgtg gaaaaaataa 60  
 acaanaaatg aacaagattg ataagccaac atatctagta taaacaaaat caccaccaca 120  
 caatttgtat gctaattata aagaattcta attcctaagg tacacaccta acaaaggaac 180  
 acatcaattc tacaacaaac tcgtatcaga acaccaatta gttcatcaaa cacactcaat 240  
 ccgtaattaa acatgaaaac ataattaaac ttcataaaca ccccaaaaata acccaaaaat 300  
 tgatcctcta aggatcccta cacatgttca ttctaattcc caagcgtgag taactcatcc 360  
 cttacgtcga tgtagtcgct cacatattct ccgctagtaa ttgtggcgct tctggtgctc 420  
 tctagagctc ctactctggt tgttct 446

<210> 19950  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19950  
  
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 ttaactcatc gccttaaagt gtcttatagt catgtgattg tacaattcat agatcacaac 120  
 tcanagcaca taacatctca atgcatatat atcacataca ttcggtctca atcacgatga 180  
 tataatccca gagtaacatg ctatcacacc tcatgaatca tatgcacttt aattatgaac 240  
 tataacaatac acacaattac tcatttggtt tcaaaatcat tttaactcct cgcacctcan 300  
 agtgattcaa ctcatcgggt tcccatagtg gatcccatca gaatactcgt cgtgcaaaaa 360  
 ctcgctgctc ttaaagggtc ttacaattgt gtgattgcac agttcatagt tcacaactca 420  
 atatatacaa naatgatgta gctccatgtg 450

<210> 19951  
 <211> 450

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19951  
  
 tgagatgagg aagtgtagaa gggtgaaact tcctgctntt attcgttgac cacatagtgg 60  
 tacctggaca tatgtcgcgg tggtcaggag accttgtgga cgtcagggtgg ggtgctactg 120  
 cccaaaacca agcttgacca atccccgacc aaccggggca tagtcagtca gtgataacct 180  
 gtgatgtacc taaacaggcg agctcctggc agtcaataga taaaaggaac aaagaccaca 240  
 aagcaaggag gcttgtggtg gctggccagc tgtgaatttt gtgtgatata tgggttgtgg 300  
 cctctggtaa tcgattacca aggggtggga atcgattaca aggcttgaaa atgaagacag 360  
 gaggctaaga tgggtctctgg taatcgaata ccacgggggtg taatcgatta ccangcttga 420  
 aaacgaggtc aggaagctaa gggagcttct 450

<210> 19952  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19952  
  
 agcttaactc atccaatcat ggcaagttca acatgctttc aacaaattgc ttcacaaata 60  
 actatcatga agcaganaac tagcaaaaact acccatcata tctcccanaa ccccataccc 120  
 acgaaaatca agagagaaac aagtccaccc aaacctgaaa tttcgaagtc tcacacgtag 180  
 acacgcactt cacgactccg aanatgccct cctttcgcga tttggagcag aaatgggcac 240  
 caaagggtga agctntgttg gagcttcaat ggagaatgga ggagaacgaa naagcaacgt 300  
 gaggaagagg gagagagang ctttgaaaat gtggggctga gtgaggagag agagangttg 360  
 cttttggttt anaaannaaa agcttttcct ctnttcttat tatttattta agctatgcca 420  
 catgtctnca tttgagtga gc 442

<210> 19953  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
  
 <400> 19953





gtgtctcaca agactctcat tcatacagta caacaagtgt tacacatgct tctatattata 180  
gactaggtag cttccttgag aagatttctt gagaaaactt ccttgagaag cttctttgag 240  
aaaacttgct atagaagcta gagcttagct acacacaccc ctctcataac taagctcacc 300  
tccttgagaa gcttccttaa gaagattcct atagaagcta gagcttagct acacacacct 360  
ctctaatagc taagctcacc tccttgagat gagaagcgag agcttagcta cacanccta 420  
taatagctaa gtcaccccc atgacataat acatganaat acataataaa agt 473

<210> 19956  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19956

caagcttgag tttatttatg agttttcttt gccctttaat tcaactcaat ggaagcaacg 60  
aaagaacttg tatctccaat tccatgcgat gatggacacc ttgttaccgt tcttagtatt 120  
gatgggggtg gcattcgggg aatcattcca ggaattatac ttggcttctt cgaatcagaa 180  
cttcacgtaa tatgctaact atataaatag gtacaaatta aaaaaaaaaat cattcactag 240  
agggcttana ctctanagta nataaatttt tatatatact ttgttgtaag attataatta 300  
tctttataaa aactntattt attgagggga ttgatccct tccttcacc ctaatgctag 360  
tattaaagta actttctagt tacgtcgtgc atcaaatata tgctatgatc gtatatataa 420  
taa 423

<210> 19957  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 19957

tactcaagct ggaactataa ctttgatcgt tctttactcc tctcaaacag aatatcttat 60  
ggacaatcaa caacaacttc catatagtaa accaaatacc atgtgattaa cggtttagtac 120  
atgttcgatt tgcgtttgc acagctccaa atgtccgttc atgcgtttca aaatgataac 180  
aaaataaata aataactaca ctgcttgatt gacaaaaaca tgcattacgt tgaacctaac 240  
attgtttcaa atacacctta tatatgtcac cgaacgattg ctaatgatga tccaaattta 300

agattataag aaataacttt gtttatagta ccgaaaaaat tgagtatgaa actttgacaa 360  
 acatattacg aaaataatac tatatagaaa caataaaata atatatatat ttataaatac 420  
 tctaacatth atcttcat 438

<210> 19958  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19958

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 aatcgggtacc tgtcgcaaga gtctgtggtt tatgtctctc tgetgaccac catacatacc 120  
 ttgccccttc catgcagcaa cctggaacaa ttgagcagcc tgaagcttat gttgcaaaca 180  
 ttacaatag acctcctcaa cctcagcaac aaaatcaacc acagcagaac aattatgacc 240  
 tctccagggg accatccgtt gttgggatgc gaccctcatt ngaccacttc gaggtacttg 300  
 gcacccatcg ttaggcaatt tgtgaagttc catgacgtgc cggaagtcga aagaaagcat 360  
 tgtagcacga tccgtgaagt tccgcgacat gc 392

<210> 19959  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 19959

gggagaggat gcttcaatgg agganaagan agagggagag anagatagag ggggtgttcac 60  
 aaaattgaag gaagaaaaag ggagagaatt tgaactttga gttgtgtctc acaagactct 120  
 cattcatcag ttacaacaag tgttacacat gcttctatth atagactagg tagcttcctt 180  
 gagaagatth cttgagaaaa cttccttgag aagcttctth gagaaaactt cctatagaag 240  
 cttagactta gctacacaca cccctctcat aactaagctc acctccttga gaagcttcct 300  
 taagaagatt cctatagaag cttagactta gctacacaca cctctctaag agctaagctc 360  
 acctccttga gatgagaagc gagagcttag ctacacaccc ctataatagc taagctcacc 420  
 cncatgacaa aatacatgaa aatacaaaaa anaagtcctt actacaatga ctactc 476

<210> 19960  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19960  
  
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 aaaagacata atattaaaaa ttcaagcaca tgtaataacg taaaataatg tgggaaaata 120  
 catatttaca actcacctgg tcgatcgta gtttcttgaa actgtaaaat gagatgacct 180  
 ataagaagct agacattaga cgtgacactg gttgagtcag aagtgtatat ctggccctat 240  
 ttattataat tnttatctgc ccccatga aatnttaatg gtatttaggt accgtagata 300  
 tacatattac ctgtaatata tatgcaatct ctcaatactt atatngctgt tattaaccca 360  
 tttctttgca gatttgaaag atataactct cttccaccca ct 402

<210> 19961  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 19961  
  
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 aatgccgtct acagtatgat catcactcta tattaatttc aggtaaagaa aaatggtgcc 120  
 atttggatcg cataaacagc aactacctta taccaagtga gtgtttgatt gcaagtattc 180  
 cctagtggac tccattgaat agaactgtta cttttttctt cgtatatttc taattgctct 240  
 cccagtaatc caacctgtaa taacgtacgt acatgacacc aatgtcctac tgtccaatta 300  
 aatctataca acctaacaga tttgcagtaa ttaaattgtgc ttgagaataa tatgcgtag 360  
 ttccacgagg aatacacata tataatattt aattatatat aaactcatca taatacaaga 420  
 gcaaagcgga cctgatatcc ncatgtagaa ttggtcatat cgtaggactc 470

<210> 19962  
 <211> 433  
 <212> DNA  
 <213> Glycine max

[illegible]

<210>	19963
<211>	454
<212>	DNA
<213>	Glycine max

tggtccagtg	gcaaacaaaa	ggctcaggat	tcagcaatgt	gtttatatag	gagcaggctg	60
ataaactntt	agaagcaacc	aatttgtggt	actcagagca	gagagatatc	tgttggtttt	120
caccaataga	ggaagatggt	gctatgtggc	tttttgtctc	gactacctct	gaccttgatt	180
cttgccataa	tcatgtttca	acttcaagta	gttatgatat	acatacagct	agaagttgga	240
ggcttgctct	tttgatgaaa	aatagcataa	tttttggaag	tccttggtat	ctaagggtgct	300
atgaagtttt	ttctgaattt	gaatatagtt	cgtcatgtgt	tgcttaattc	tgттаagatc	360
tttactgggt	ttcacttcac	atctagattt	aattgggaag	attgtaagga	accattagtt	420
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```
<223>      unsure at all n locations
<400>      19964
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acttctttct atttttgggt gtttgaataa ccggttaaacc ccggtgaacc acccgtcctc 180  
atnecattac ccagtttaat tcttgtttta ctggttttag tctggttttc tgggaggggtg 240  
gttcaatggt gctattggat tggatgcctg gttcccggtt ggaccagttg aaccggtcga 300  
tccgatcttg ttttgaatac c 321

<210> 19965  
<211> 552  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19965

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aaggcactct gtgagcgtac agaacaggga gcttacctat agagtgcagg agctcgagat 120  
gcagagctga ctgatgaggt gcatatgaag aatgagctga acacttgagt catatcggag 180  
acactctcat ctactgacg ttacaaacac cgcgatgggt catcgcatga taggtgatag 240  
acggacgtat catcctagat aatatatctg gccatcactc tgacgagact catggactac 300  
aattctgggt atagcaacta aaccttaaat tccctgacca ctgtcacatc taagctcaca 360  
tcattgagac tgggtccatga catgagccct atcctaatta gaagctactt acacacaccg 420  
ttgtaatggg tcatgtcacc ttcttgagat gataatcggg agcttatcct cgcacgcaca 480  
taatggctat actgaccccc atggccctat acatcaaata tcgtagtatc agtaccgtac 540  
tcgatgactg ct 552

<210> 19966  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19966

agctttgaag tttgacttgg tccttcagtt agagggtcat ccatcatgta agtagcccca 60  
aaaccatgaa tggaccctt atgaggcaaa acagttttca tagcagttgg gtgttcccc 120

gttatgttgt tatggaaata gaagtggagt tgggtgagtt tttcttcac gggttctgtg 180  
 gatggatact gttgtgcaaa cacttcacta gttgcgggta aggaacttga catgataaca 240  
 atgagatgga agccaaagag gagatacaca actgaagcca tcttggtact acttttcggc 300  
 atgttagcca atggttgcca acaactatat atataggcag aagatatatg taccttgtgg 360  
 aatactntat taaaaatgat tatgtgtaag ttattttaag taaaaatggg attaaataat 420  
 ccat 424

<210> 19967  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<400> 19967

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 gttttgggct ttctactttt cttgaagaat ataacttgag tccacagtgt ttcacgaacc 120  
 atgttctttt ggaaaaattg tatttattca tctgtcttgg tgtaggtgaa cttttgttgg 180  
 taccacaatg tttttcataa tataattagt atattcaatg gatacaccga gcttaatccg 240  
 gtacattata gaattttcta tactaacata ttgtccaaga ctaagttcac agtatatatt 300  
 tataaaacac cgcaaagtta cccgagatgt gaccacccat gtgaactgta ctgaaggctc 360  
 tcattgttaa taaatgattc cattgcttgc tctaatacgc accattacac tagtttgtct 420  
 gtgatctggt gatatttata 440

<210> 19968  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19968

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 ccacacactc aagatggcag ccatatgtgc tcaaattcgt tccactaacc aagttgtaca 120  
 aaaccacaca caaatgccat tgaggcattt cactgaacac ttggtgggcg catgtttaga 180  
 catgaataaa tgaggaatgg cggcaatgct acatgcccat tcatatcaga acccaagata 240  
 tgcctatggt cattctctac aaccccccaa tttaaataac aactatggat atgacatata 300

ttgtctcatg gattttgcan acatagacaa tttaaagcact aaaacacat

349

<210> 19969  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19969

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atgttcatca tggatttatg ggatgtaatg aaaaaatatt ttttggcatt tcttgatgaa 120  
ttacacataa atgggagact agataaagtg gtcagtagat cttttattgt tctgttacct 180  
gaaaaaagaa aacctaatgt ctatggggga taatatatcc ctgatagggt gtttgtataa 240  
aatgttggca cagatgtttg ctaataagtt aaaatgggtt attgatgatg ttatttccac 300  
aacccaatct acttttatat cagggaggaa aatgctggat cgggtactca ttgctattga 360  
ttggttcatg 370

<210> 19970  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 19970

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ttgggcaaaa ttggatgagg gaaagtgtga tttcgaaaat ctgcacttta tgcagaattt 120  
tgctgtcaaa taggtgcaac agaatttttg ctttgtgcag aaagtgttgt gtaattgctg 180  
gctgtggaaa gagtagtata gattgtgttc tggacgtttt ctagcagatt ccaacgggtca 240  
taatgtagat ttatgtgcta gagacttcca gtaaaatttt cgagtcgata caactgttaa 300  
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<210> 19971  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19971



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 tcttaaagca aaaatggcat gtaacctcct ccataaata caaacatcaa tgtaaattta 120  
 gagcaagctt atgcgcatat ttccttaca acgttctctt gcacaagaca tttaaccgaa 180  
 aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac acgtacctcc 240  
 aagatgtatt tgttacttac atcacacaca tctctttggc taaattcaca tacatgcata 300  
 ctcaaagcan tttgnggtac caaaaattgc acatgtgcac atcttggcat ttctaatacc 360  
 tattcatacg caaacttcat gatgaatctt gactaccac acaa 404

<210> 19972  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19972

agcttacaac tcataataatg tcacatcaag aattaatgac acacttattc acatccaaaa 60  
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 tcacaattca acacctattc tactntgcac ttttactcaa tctcaatgac aatattataa 180  
 tctcaaggca acatattatt ccacaattca tcacatattt cattttataag cattgctcat 240  
 gaattataca ataccacga cctaacactc gtattttcaa cacgtttaac atattgcgct 300  
 ataatttaac actggttcct gaataggaaa cctacactnt ctcttanaca ttgtgcatca 360  
 naagttnttc tcaagataac actggtcaga atattgtata attcatagct cacaatataa 420  
 ttattgtcac ataaa 435

<210> 19973  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19973

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 aacatgttta ccaaagagtt tttactctct ggtaatcgat taccagatta ttgtaattga 180

ttaccaatag caaaatggat ttgaaaaagt tttcaaactg aatttacaac gttccaattg 240  
 atttcaaaaa gttttaattg attacaatgt tttggtaatc gattaccagt gcctttgaac 300  
 gttgaaattc aaattcaa at gtgaagagtc acatcctttc acataaaaagc cttgtgta at 360  
 cgattacact gatttggtaa ttgattacca gtgaattggt tctgaataaa tcanaatatg 420  
 taactcttca aa 432

<210> 19974  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19974

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 cattacctgc caaattggca attcctatgc agacatttgc aatgtctgat ggcactccag 180  
 cacttttaaa aacagttgaa gagaaataaa acacagcatt tataccagat agctgttgta 240  
 aagcanatag ggttgatcca ataaaaacaa ctgctaaacg aacttggtgaa taaaaaataa 300  
 cttttggaaa cctaaggaaa ccagtgaaca gataacaaca atggcaaata cactcacaag 360  
 tcacaactat ccagagaca aaccaggaaa aatgcatacc tttagaatga cgaccatgaa 420  
 ngcaattcga cagcttcaca ctatcacta 449

<210> 19975  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19975

tggttgctaat gctggacaga tcctcttang aaacctggta aattgtgaga gtggagattt 60  
 cttatatgga ctgtatgttc attntttggt gtggactctc ttcaataact aagctttatt 120  
 acatgctcaa attcatgtag ttgtggactc aataattgct tatagcatga gaatgatgag 180  
 gagattgaat aactatttga tgattcacc tgtaccttcg ttaatttttc actttgttgc 240  
 aacaacaaaa ttaaaaaaaaa aaaaaaaaaa agagcttacc aactcctttc acatttcaca 300

ggaaaaagag cctgaaactt gtgtaccaca aacaagttct agtcattccc aagttttcat 360  
 tggtatttgt tagtcctcgt acacaaaact tgaattcttt gaacttggtt gaacaaatac 420  
 ttattagtagc ttanatttcc tccatttcta aatat 455

<210> 19976  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19976

agctnntgcg ttcgatttct tagtgcaatt ctccattctc aacctttttc ggagcccat 60  
 ggattgagtt ttcgttcatg cgtactccac cttegagtagt ggagccatgc gtagtgattg 120  
 cttagttcaa ttctccattc tcaacccctt tttcgcagcc ccatgaattg cgatttggtt 180  
 catgtgtcct ccaccttcga gtctggagcc atgcgtagtg attgcttagt gcaattctcc 240  
 attctccacc ctttgctgga gcccatgaat tgcgtattcg ttcattgtgtc ctccaccttc 300  
 gagtttgaag ctctgcgtag tgatttctta gtgcaattct ccattctcaa gctttatcgg 360  
 agcccatga attgagttat cgttcatgcc tctccacct tcgagttt 408

<210> 19977  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19977

ntacagcgga tgccactcta ctccaaattc ttgaaggata tgttttcaat gaaacataag 60  
 tatattcacc aagaaaacat tatagtggaa ggacattgta gtcttgatgat tcaaaagatc 120  
 cttccacca agcataaaga ccttgggagt ataactattt cttgttcaat tggagaagtc 180  
 actatgggaa aagctcttat tgacctgnga gccagtataa atttaattgtt gctctccatg 240  
 tgtagaatgt tgggagcgtt agagatcatg cccactagaa tgactctaca attggctgac 300  
 cgctccatta ccagaccata tggagtaatt gcagatgtgc tgggtcaaagg gaaacatctc 360  
 atcttcccg tagacttcgt ggtattggat atttgtgaat atactgacat tctgtgaata 420  
 ttggga 426

<210> 19978  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19978

agcttgcnc a cttgtcttat tctatatgaa gggctctgat ttcttgagta gttttagaa 60  
 tggctttccc tttttggtga gctttgggaa gaacctggac agacatgcta gcctttcatt 120  
 cagcttcagc ttctacactt cttggatggt ggttgggttg cgcgatgatca gtatggtagt 180  
 gcatttggtg nggttggctt caatccccta gtgagtgatc atgaagtcga ggaacatgcc 240  
 tctgtctacc caaacagtac atttatcatg gttgaggcac atgtcatatt agtgaagttt 300  
 ccacaagact tcttccaggt cagtcacatg ttgggctatg ctccgagaca tgtctatgat 360  
 gtcgtgcaca tatacc 376

<210> 19979  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<400> 19979

ctgaacatcg gtaaaccctt catgtaagct tcttatggag ttaatatctt ccattatgca 60  
 tgacagcccc ctatccattg aatgtctcag gtgttttact gctcttttaa ctgcaaagat 120  
 tatttatatt acagtaggac aagtaccata ggcactgcgt gatacatacy ataataaat 180  
 cctgtaagaa cagaaaaaac aaccgcacat gaagccacat ccctacccta caagacacgc 240  
 attactaaa aactagaggc attgttggaa tcccatgtgc tggccttcat aagtctatcc 300  
 cataacaatc tccaggcata agataaagct ctaggaggga ttttaatctc ccatagttga 360  
 tggaagccca ggtgctggcc ttcataaagc tgctcagctt taatgac 407

<210> 19980  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 19980



atgattcact ctgattgccca tttgtttgag agaggtgcta gagaattggc cgcactatta 180  
aatgggacaa agggaaatcc ttggacattt tatcatagtc acttggtgag ttntaatcta 240  
acacactcct acattttata aaacatgtat taatgatggc tcaaagttac gtacaagtct 300  
gtggctgggt gctatttaat cgttggataa ctctaaagtg cttttgacta cttacaataa 360  
tttaaggata ctcccatacc tttgtgaata attactcatt tgacattgtt tacacatgac 420

<210> 19983  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 19983

ggtagtcatt ataagagaaa gaacatgtga ttagaattat gaatgttatg ctagtttttt 60  
gtcagattga ttgtgaagaa atgcattaat tgtaaccggg tgagagtgtg atccttattt 120  
ttgagagaaa acggctatca ttaagtactg acttttgcac gaatctctta attatggact 180  
gaatgcatga atttgaggat gatgaaggcc atgttttgat tgtgatagcc acttagccaa 240  
aaagctgacc atgtgcatga atgatttata ccttgcaccc agttttgagc tgaatgaatg 300  
cttgattgat tgaaccttga gcctatacag ttttatcttc tgctactttg tcttacgttg 360  
taggagagca tcattccacag aaaagcttag ttcaaggcag atttgcacca aatttgggga 420  
gttatatgtc aaaat 435

<210> 19984  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19984

agccctatan atttttatat ggcttgaaac aagcactgag gcagtggtag aagaagttaa 60  
atgagtttat cagcaactca ggattcaaca gatgtgacat gaaccattgc tgctatgtta 120  
agaaatatac taatagttat gttatcctta tcgtgtatgt tgatgacatg ttgattgcag 180  
gatctagtat gacagaaatt aacagggtga agcaacagtt ggcagaaaac tttgaaatga 240  
aggatcttgg tccagctaaa caaatccttg gtatgagaat tcttagaaac agatcagaaa 300



<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19987

tctcgctctt gcactttcaa gcacgattgt ctgtctccaa tttgttatgg ctttcacgca 60  
ccttccatag tcattcttgca nacacatgct cgtccctgtt atgtttttgt tcatatggaa 120  
gactcaaata tacattgcac tctatccaag gcttctctca cgatctcttt acactcttcc 180  
agccatggag aaactcttca cctctcttaa taatgacttt ctcattaagg acctccttat 240  
tctcctaggt tttatatatc attactcctt catatgcttc cataacaaca tggccatact 300  
ttgttgattt gctatcaacc ttgaaagcat gttgaagaac agtngattac atgaatctgc 360  
ttgaaggatc gagccaacga taagcaaggc ctatagaaaa tattaacagt cgattacttt 420  
aaatatatat gttggactgt ttgctaacat ata 453

<210> 19988  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19988

agcttctca tcttttgttg gcagtgaac ctaccattt tttagtcatg cacattgagg 60  
gatgcaatat ctgtggtgag gcccatgagt caagcatgtg catggtccaa gatgatgtat 120  
ccaaagaagt caactgtatg atcattccac accatcaagg gttccatcaa ggacgacctc 180  
caggatacaa tcagggggga aaattctctc agggccaagg ttggagatcc caccocggga 240  
atagcttcaa caaaaatcat ggagtttcat ctaatcagcc tcccaatcaa tggcctgatt 300  
tatatgagat aaccactaag ctagaagaca ctctgaatca gtttatgtag gtttctctat 360  
canatcataa gagcactgag tctgccatca gaaatct 397

<210> 19989  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19989



tcaggagacg ctgaatcaat tcatgcagat attcatgtcc aactatatga tcatggagtc 60  
ctccatcaag aacctggaga tacaagtaag acaattagcc aaacaaatgg ctgatagacc 120  
caccagcagc tntggagcca acatagagaa gaacctatag gaggaacgca ggggggtgtt 180  
gactagaagc cagatgagag cgcaaggaga aaaagagaaa gctaaaggag aatagtctga 240  
ggaaggaatg ggcagacaaa gaagaagaga atgaggaaga agagaagaag gaaaaagaga 300  
cagattaata gaagaaggtc ttaacctcta agaccaaag ccagctagcc tgagaggcta 360  
tgaaagaaga gccactatcc tctctaaagg agcccctata tccttttagta ccatcaaaga 420  
agaataagca tcactactt 439

<210> 19990  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19990

agctttcttat tgttccagat ggacgtgatg ggcgagcatt cacccttagc gtgattcatt 60  
tattatattt taaaagcgaa tgagaattaa aatcaattat actactttta aaatatttta 120  
tttttttaaa gattagtatt aattattaat ttattagacc atataaattc tgattgtttt 180  
ctcanatata acgtaggccg agacatcaaa agacctgtgt ttgaatgaaa gacaactctt 240  
atacaagccc tcgcacaggc accaattagt gctacccttt ntatgggaca caatgggaat 300  
tttcttgagt gacgcaagta attctattca gttcacttct agaatggaag atatgcagct 360  
cttaattgtn cgtttcatat tataggaagt acatatcaag acgccaacc cgatatcact 420  
aattaa 426

<210> 19991  
<211> 463  
<212> DNA  
<213> Glycine max

<400> 19991

tactgttaga acttcttcag atccaatctc atgaccacca tagacaaaaa gtttcccccc 60  
gctattattg gcacaccaat gtagaacaat aatagggagt cttctatcag ctgatgataa 120  
ttgaagcttg acaacattgt ttgacaatct ttcaacttgt tggtcagggg gaaagtcagc 180

agttgacaaa tcccaaaaca ttatatcacc atctacataa cccacaacaa ccaccgatcc 240  
 atcattagat gcccaagata cagagcttat ctccttatcc tcctcttcat ggtctaattt 300  
 atcatcagaa agctgaaccc tagagtcatt tggataacta gtcactatct ttctcttcaa 360  
 tttgatgtcc ttgtggcctc taatgagaac aattcgatct tcagaagcat cccagagtac 420  
 catcaaacca ttttcgtatg caattagcag tctgcaaaat gac 463

<210> 19992  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 19992

taaaccataa tacaccatct tcaacccatg caaaaccact ataccgtagt gcatacagca 60  
 taagcttaaa gaatacagac aacacaaata tcatcgtgaa tgatgagaag aatatccaaa 120  
 caaccagccc tctcttgcca gttgatgggt ctttaatat tgttgaatcc ggctagcttc 180  
 aaccaattct aacaccgacc acgcaaccac aaagtgcac ctttggttgt actcaaaaca 240  
 gggagacttg gcacatgtga acctctggaa caagtttcat tcagcacttc tggttttgct 300  
 gatagcatgt gccacaaca aggggattga tataccatag cctaagaaat ggagtactgg 360  
 gttcatctca tatagcttta gaagagttct gcaattctgt aatggaatag tagtaaatca 420  
 caaatg 427

<210> 19993  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<400> 19993

agctttcaac atgagtcttc acatataacc atcatgaagc agagaactaa caaaactacc 60  
 cttcatatct cccaaaaccc cataccacg aaatttaaga gagaagaag tccaccata 120  
 cctgaatttt cgaagtccca ctcgtagcca cgcacttcac gaccccgat atgcctcct 180  
 ttgcgatttt ggagcagaaa tgatggccaa aggttgagc tttgtgtgga tcttcaatgg 240  
 agaatgaaga agaagagaat ggcaacgtga gggagagaga gagctgtctg aaattttgtg 300  
 gcgctgagtg aagagagaga gagttgctcc ttgggtttaa atgacagggt cttctctatt 360

tttctattat tctattcaag ctatgccaca tgtcttcatt tgagtggagc aagaatgccc 420  
actttccctt ctttaattgtg actcatact 449

<210> 19994  
<211> 465  
<212> DNA  
<213> Glycine max

<400> 19994

tctacttatg tggcagggcg ggcttccttc accttcttgt ctctacgct aactttgacc 60  
actgttcttc cttcccgcga tgcttctttt caggtccgcc tgagtgggct tatagcctaa 120  
accatacttc ccacgatttc cttgggtatt tatcaggcta gttatgccgc cgttgcttct 180  
gcctaaacct atcctgagtt cataaccgtt cccaacata actcgggcca tcattaccgc 240  
tgcacgggac atacaaggct gcccatagag ggagtccacg gatgaaatgc tgaccacctc 300  
gaaagactgg agagcagttt ctaacgattc ttccgcggtt tccacattag gcatggagga 360  
tgggcagctc accaagatat ttactcgtc tgcaogatga ccaagtgccc ctccactacg 420  
aatttcaact tttggggagt gtataaggca caactccac tgaat 465

<210> 19995  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19995

ttgcatgcaa gctngctgnc tacagtttgt tgatgcacct atatcactat gggtagtggc 60  
ggagactgca gttgtttcgc ccatgacaat ggccaacctat gcatgcatac atagttgctc 120  
ctgtcacgct agacctagcc tgctacccta cctttgcgcc taccctgctg caacgccaaa 180  
cctatcctgc tccccctccc ctgcgtgcct acagtgcctg aggtgtatca tcattggcac 240  
tgggcatacc ctccccacgt tagggctgac ctatatngcc agttgcagtg gcaaacaatca 300  
ctggctatct cgccagcgat agtg 324

<210> 19996  
<211> 576  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19996

agcctcgctg tacntcantt ccgaagacac cgcacggtac gcatccgctc actacatata 60  
annaaannan naagagggnt tttgatgcct cctagacnga ccnatanata ctaaagccgg 120  
aaciaataga ccgacaagtc gaacaccaca agcaagggct gttctagtat tgacgacgag 180  
acggagcctg cgaacacgtc gccagacaga agcggcaacc gctagaagat caccttcagc 240  
agaacgcact ctatcacacg cagcgaccgg acattcggag cgcacgcaac tagaaagacc 300  
aacgctacac aggcacgcca aacaacacct ctctttcaat aacaaccacg cgcgccaccag 360  
agcgagcgac ctacaacccg aagagcacgt ccaaccaccc gaagacttaa cgagcagatg 420  
acaatgagct gccgcaagct tgacctgatc atccgagatc gatacgaaca atgaccacac 480  
acacccatgg gagacaatgc agcaaagact acgcatactc gtgacaacag gcacataccg 540  
agaccctgga cagaggaagt gaacggacac cacacg 576

<210> 19997

<211> 367

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 19997

gccggaggta ttaattgata ttcaccanca naatgggcac actgaaggaa tgattggcac 60  
acctgataag aaatagaatg ataactaaac ttactgaata tacaagcagt ttgagaacaa 120  
caacttacta ctaaattggag taactggaat gaatgtgaga tgtagaaacc ttcaaagatg 180  
tgcacacca tgagactttt gtgacagatt atgcagacct cacaccaat ggtattaca 240  
gaattattcc caaagatata gacaccaagg catgacaaaa tctattatac tgatcacaat 300  
tcctgtcat accgatacag tatgaacaat acggacagac accggaacca tttataagct 360  
taaagta 367

<210> 19998

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 19998

agcttaataa atttcctatt gatccacatt gtgtatgtat gattgcatgg aatgagatga 60  
aatgcaaaat tgggaattga ttgttagttg tttggatgaa caaactta cctgaaacac 120  
ttgtgtgctt gagataaatg ttggctttgt gaggaagaa gcttagttaa ccttcctgga 180  
agcttgacat acttgctaac cattttcatc tctaaagagt attattgcat gcttctatct 240  
tgagattatg acaaagtcta atttggggga gatgatgatc tgtgaaatgt atgcagtcac 300  
ctcagatatt gtggttggtta ctttctgaac aggtcattaa tctaacttag catagttagc 360  
tctcttttgc ttngnacaag cacaactcta aatttggggg agtttgataa ttgatgtaca 420  
taagtagatt atgttattaa aa 442

<210> 19999  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 19999

tctccctatg acaaccacc attcatcttt gctggagaaa aagtcaatat ctaaaggatg 60  
catgtgggta tacaccaagt ttggatcatga ggggtcattg tagaaggacc taaaaatcca 120  
atatttgata gtgcacgccc acacttncta caacatacta cttagtagac catctntgaa 180  
tgtgatcggn gctatagtgt tcacccccat ttggctatga nattcccccc aaataaagga 240  
tccatcataa cagtccacaa cgaccagagg aacgttaggg aaggttacat ggtaagcctc 300  
aagattaacc gtttggtaaa aagtgagtcg tgtcgaactg tgcactatgt agaaattatg 360  
gtagggacct gttatgactt ttggcaagcg taccaattgt cactatagat tntacatnta 420  
taaaagagtt cgtctccaca gggactcgag ttacttaatt cattcggata aagg 474

<210> 20000  
<211> 334  
<212> DNA  
<213> Glycine max

<400> 20000

agcttgatca ttacaattat ctaatcattc caatccactc aatcattca attgctcatt 60

caaatcatatc tcaaacactc atttcataact aaaaaatcca ctgcatatca ttgtcaatca 120  
 attcaatggtt caaacacgct cttggtagaa gcaaacaact catagtgtg aaattttaat 180  
 aattgaaatt taaaagaact gaaatataaa acctgaaatt aatatgacta aacataaatc 240  
 ataaaatatc taagaataaa ctaaaattct caagatgcat aaattttaat gtcctgtcca 300  
 tcttgtgggt gatccaatgc tggagctgct gatg 334

<210> 20001  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 20001

ctataatact aagctcgtaa agttctcctt ctttgtttcc tgtatacaca caagatccac 60  
 tcttatgctt taggttgagc tttctaatac cagccattt aatccctctg ccagtcctc 120  
 tgcaattata ggagagtatt atcatgatta ataatacatg aagttcatga agttctcccc 180  
 aattgcattt gtcatggtat tgagaagtca caacatcacc aaactgtttt ccagttgcca 240  
 tttttgaaag ttgggatccc ctttttctgg ctgtttgggg tcacccgaga ataaggtaca 300  
 atggtgtgta taaatatggg tacaagactg attctgtcac taatttagag ctaaaatcag 360  
 gaacccaaat ccctataatt gttgaactaa gaaggaaaga aatatagcac atctattata 420  
 gctgacaatc agatcgaatg attttgctaa ttctcgaatc atc 463

<210> 20002  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20002

agtgtttcat tctttagttg ttttaaaaac tgaaattcgt atggcgcgct tagcatgccc 60  
 atgtgacgtt tgagttttaa acccaagcgc ttagcctagc ctcacgctaa gcccaacttg 120  
 aagtggtaaa gtccagttag catctggggc ttagcgcagc aggctgcact tagcgctttc 180  
 tgcaacacaa aattatctgc aatatgctct tagcctgata tgtgaggctt agcgtaccat 240  
 caagcttcaa cttacagaga gtagttcatg cttaacgcaa caggcgcgct aagcgcactt 300  
 ccatgaattc aaaacttgta agagattggc acttagcgct tcttgtcccg ctaagcccag 360

cttaagaact catttacaaa atggatctan ggcttatcgt aggatagcgc gcttagcgc 420  
gctataataa a 431

<210> 20003  
<211> 452  
<212> DNA  
<213> Glycine max

<400> 20003

tcgagaattg cccaaactcc ctctccattt ctgatttagg cttttattgt ggccttggtg 60  
gtgcttggtg gcttagcgca actctggctc gcttagtgcg cattagtga tttcggtta 120  
gcgctcgtct tttcgcttag cgaatggact taaatggtgc acttaacgag attagccctt 180  
gctcagcgaa catgcatagc tcattcttct ttcagattct tcctcgcgct cagccaaagg 240  
agtgttgac tcagtggatg gctcgctaag ccaaagatt ggcttagcga gcggatgata 300  
attagcattt cacagacttg cctaattaac ctgaaattga gaggaatga ttgttaaaca 360  
cacaaaatgg gagtactaag tatttattac ctatctttaa caaaaagtaa ttacaacact 420  
acaaaataac cataaattgg aggaatttga ta 452

<210> 20004  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20004

gagggacttt gatganctca gacctccana accaaaacta gtcgtagaga ccaggttatc 60  
tagagagaaa agtagttttt agtcaagagc ctaagcaaga ttggactgat gagacatcgc 120  
ccaaagaccg tcattatcct ctttttgata gggcctacac actcttccca ctacatacta 180  
gtgcactcac catctttgac tgtgaccagg tctatactgg tctccacact cacacactga 240  
aaataccctc caataatcga tccatcataa ccgtcctctc agactagaga gactgtaggg 300  
aagggttctt ggtaagccca atactagcgc ttccgaatac agagacgcga gccatctgtg 360  
cacttattag aaactacgga tggcaactgc atagactctc agccactcca cctaccgtaa 420  
ctatatacat acacttttaa gagactcgac tcgataagac gcgagtaacc tattaactcg 480

<210> 20005  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20005

agcttctatt ttagctgaac cattntatca ataaacacac gttgagtttt attcagacaa 60  
 ttagagttta tctcttttat cttagtgaaga gtgattctcc taaattcttg agtgattcaa 120  
 gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
 agtgattctt tccttccttt catcatcacc cttgatcttt caaaccacaa ttccagacga 240  
 tccacctctg cccagaatta tctcgaggcc ataactccca ttttacgcac tcaaattaag 300  
 tgattcttga gcctaaattg aatttcagaa cgagaccttt cacctcgttt tgaatcacct 360  
 catttggagc cctgtagctt cagatatcgg catttctata tttctgtcca cgcaccactt 420  
 aaccta 426

<210> 20006  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20006

tgccttgccc catgatatat ntgagggact tatgatcact atgtttgact aattccttgn 60  
 gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tcctaatacat 120  
 aagttgaata gttaagggtg ggaccactta gcttttcact aaaataagca attggatggc 180  
 cttcttgcac caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240  
 aattttgaaa gtttggcaac gcgagtatgg tggcattagt tagcttttgc ttaagaacat 300  
 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac attnttcttg agcacttcat 360  
 tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420  
 catgtgtcgc aacctaccct tcggcgggga 449

<210> 20007



<211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20007

agcttccaca atatccaagc aatttaatat ccaaacatca tgaactaccc taaaccaaga 60  
 aaacaggggca gaggcagaaa actctgtcca aaacacattc caatagcaca gctttcccta 120  
 ctcaaatacc ccagtaacat tctcttcgct tcgattcggt aaccattgga tcgactcgaa 180  
 nattttactg gaggtcccta gtacataagt ctacattttg accgttggga tcagctagaa 240  
 aattttcaga acccaatatg tactaccttt ccataacca ataatgcata agcattttct 300  
 gcacaagaac aaaaattctg ctgcacaatt caacaaccaa tttctgcata atagggcaaa 360  
 tnttcgaaat cctcttgcc cttcatcaa tttgctcana ttggatccta caagtcttaa 420  
 atcatgtata tatcatatct 440

<210> 20008  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 20008

taagctcctt caactgcaca aggctcttaa tatttgaaaa gtattcttgt ggaacattca 60  
 cccgacgaag aactgacaa aaacttatct tcttcttttt ggacaaggta tggcaagctg 120  
 ggggcaagaa aattttcttc ccatcagacc ttggatgcaa ctatgatcat atcccatat 180  
 cagctagatc ttgataggta ttcaagtcac ccttcgtctt gccttgaatg ttaaggagcg 240  
 ttccaatcac actgtcacia aaaattttct ccacattcat aacatcaata caatgtctaa 300  
 cgtctagatc agaccagtac agaagatcaa agatgatgga cctcttcttc catatgcaac 360  
 tattactttt atccttcttt tgggtctttc caaatacagt attcagggtg ttgaacccgc 420  
 tgatatacct gctcaccagt caacag 446

<210> 20009  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 20009

ttcaagcttt ggattgttaa tgcaccacg tttcaagaag agtagagggc gccacctttg 60  
 ctgagtgggtt atattagcat tttgttagtt gaaataaagg ctcaaacttg tgttaaagtg 120  
 gttgttaatt ggatttgcac cacctatagg cttgttctaa tttgaagaaa ttaagggttta 180  
 ataagggtgga aactctaggc ttgtggctgt ctcttggctg accaggagtt gtgcataattt 240  
 acacatgctt tgtgtcttaa ttctagtttt gattaggtat aatggcacca ccaattgttg 300  
 atattggtga tcatttcac ttctcactat tgtaaccaac ttgatgtcat tcctatttat 360  
 aggctacaca ttttct 376

<210> 20010  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<400> 20010  
 tcagacaaca tgtcataata gattacgatg gacctgtaat taattataac aaagagtttt 60  
 tgccctcttga agaaactttt cttcacacta accatgatga tgaatgatgc aatatagata 120  
 tcatatgtac taagatgcaa catacaagat aaaaaccaat acaaatgcca ctcaaggga 180  
 ttaggcattgt aaaagtcaaa acatcttcaa aacttcttca agcttttcct tgaaagggttg 240  
 attaccatgt ggctcatatt gctccttcta tctctaacaa tgtcatcaca ataaatggca 300  
 tggaagtttg gaaggtaaag caacatacac atatgcatcg tactaccact cattatgata 360  
 tcaatattac acacttattt tcctcgtagc tcaactatcac cttcatagag tataataatc 420  
 atgtcta 427

<210> 20011  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20011

ttaagcttgt aatgttaaga aaagagcaac gcacacagtc atataatagc gaacaagtat 60  
 taacaaaaaac atataaatat aaaataacaa aacaaatcaa aacaaaaact ataagcatat 120  
 aaataaagtg tgtgtgttgc tatttaagac aaagaaaagc taagtgtgga aaggcaagta 180

atagagctgg aataaaatga caaagggtga tctatggatg aatgctttct tagaacctaa 240  
gcttttgcac actatagaaa ccatgaattg attgcagccc aggcctgtta caagcctaaa 300  
aaagtccttc agattcagtt ngtgtgttct cgactatatg gcaagagatg aattgaaaag 360  
a 361

<210> 20012  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20012

ctgagatggt atctggtctt agaanttaat ttgctaagat cctattctgt gcgattggcc 60  
aacctgagga atggtgtagt cttgctgctg actacttgca ttgtggcccc ctgcagctcc 120  
cattcatata cctagggatg cctatagggtg ttaaccctag aaggaagggtg gtgtgggagc 180  
ctataatcag aaaanttgaa gccaaattga acaaattgaa ccacagaagc atctctatgg 240  
ctggcagaat taccttaatc aatgctgtct tgacagcttt gcccttggtt tatatgtctt 300  
ntttcagggc cccttcagca gtcacaaaga ggctcactac tatccaaaga caatttcttt 360  
gggggtggaaa cttggaagga aaaaagatag cttggatctc at 402

<210> 20013  
<211> 444  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20013

agcttattat tgtgacgttg aatganatgc attntgtcaa agtntgttta aagagctaca 60  
aattanagtg tggcttanat tataatatat tattttttta taacagagtt gaaagatttg 120  
accgtgcact ntatatatcc atctttatga gtgaaatttc ttcaaattct anataaatga 180  
aaaaaaaaag agccaatata agctataaat taattaagaa aggaagaaac ctctcttctt 240  
ggaattggat gactactgag ttgtgatttg tctttaatta cttgcgacta tcccatgcca 300  
ataaactgaa agtgagaaaa gagcagatta aggaagaagc aagctaaaca tgatngaagg 360  
atatggatat ggatattgat ggcgtactac cattccgtag aaaaccaaca tggagtaacg 420

<210> 20014  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20014

tgagctgctg attntgatgt atatcttgag ttaatatata atctataatt atcatctata 60  
 taataaggat ttcgattcaa ctatggcaga atcaagatat ccttttccct cctcttccac 120  
 attccctaatt tattgctgac aaacttgatg attcaaattt tttgctgtgg tgacagcaaa 180  
 ttgaaccggc gatatcatct cacatcatct tcagtgttgt gttgtaaatc cagcgattat 240  
 gtgtggaaac caagtcacgc aatctgtggc atgctagact tggtcaccca aactttcatg 300  
 tactgaaact tgttctacaa cactgtgacg tatgtacctc ctgttaataa aaatgttgat 360  
 gtctgtgctt cttgttgcca tggccagtca catacactcc cttcatctcc tgccactact 420  
 acctatggtg ctccttcgga atcgatttta gtgaccc 457

<210> 20015  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20015

agctttacca ttaatttata ttgatcagga gtaaaaaggg ggaaatcttg atctcctcag 60  
 tcttttagtaa caagcacgt cttttactgt atcgttatct acttttcaat gagtgtgcac 120  
 ttttgtccat taactaaatt tcatataaga acaactaaga aatgaatagc aaggttactg 180  
 agttgaatcc tgtgatccta caatatcaaa actcatcctg cagtggtagt attgcttaga 240  
 atcatcgtag cgagtatgat gtgattatta ttacctatca tcacattatc aaagttgttg 300  
 taatcaattc taagtctatt atatgaatgt ntatttgatg taatccatta aattatcatg 360  
 gtgatatctt tatggatgag ctattacgcc aaagctatat taccttctga a 411

<210> 20016  
 <211> 460  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20016

ntgtactttt taatgacctg gattgggtttt ggtagtgaga tntattgttg gtgtggtagt 60  
tggtgtttac aagggtagag aatttgaagg gtgtagattg tttgcctggc cagtggccac 120  
tattgtagtg ttgcacatgg tgtgcagttt gggttggcctt gggttgggtt cattgggtctc 180  
atataattgt gcttttttgg tgcagctggg gccctgacag gagctatagc tgggtgctcta 240  
gcagctaaag cactaagag tgggtcttctc cggggagtta cattgggtgc cattgccggc 300  
tctatactct ctgtggaggt gttggaagct atccgtgcct attgggtgat ggagcaaact 360  
ggctcacgga gtgcatcatc tatgtgtggt agtcattctc ttcttgattt ccttgggtctc 420  
tttgtgagca caatgatttg tattaactct cataattatg 460

<210> 20017

<211> 394

<212> DNA

<213> Glycine max

<400> 20017

agcttctcga tctattatgc gcctgaatcg gacctccgag ttaaaagtta tgaccattaa 60  
aatttctcaa gagcttccgt tgattaattc cgtgcgctctc gatataattat gtgcctgaat 120  
cggacctctg agctaaaagt tatgaccata tagaatatct cgagagcttg cgttgttcaa 180  
tttcatgcgt ctcgatatat tatttgcttg aatcggacct ccgagttaaa agttatgacc 240  
atttgaattt cttgagagct ctcgttggtc aatttcgagc gtctcgatat attatgttcc 300  
tgaatcgaac ctccgagtga ctatttatga ccatctgaat agctcatcag cttccattgt 360  
tcaatttgga gcatctcgat atatgatgcg cctg 394

<210> 20018

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20018

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atcgacacgc tccaaattga acaatggaag ctcttgagca attcacatgg tcataaatag 120  
 tcagtcggag gtccgattca ggcgcataat ttatcgagac gctcgatatt gaacaacgga 180  
 agctctcaag aagttcatat ggtcataact attaagtcgg aggtccgatt cacgcacata 240  
 atatatttag acgcacgaaa ttgaacaacg gaagctctcg agaaattcaa atgggtcaaaa 300  
 cttttaactc ggaggtccga ttcaggcaca ttatatatcg agacgctcaa aattgaacaa 360  
 cggaagctct cgagagattc atatggtc 388

<210> 20019  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20019

agctnngata tatctatctt actcagccta atgtatgaga atgactatta cagtcagtgt 60  
 taagacagtt ctccctaaga tcaataatgc taaagagttt atgggattag tgagagagcg 120  
 ctctcaaaca actgataagt ctcttgctga aacattaatg agtacactga ccaccatgaa 180  
 gtttaatggg ttgtgtacta tgcataaaca tgtcattgag atgacaaaca ttacagcaag 240  
 acttanaacc ttccttgatc agtttatttt taacttatta ccgtttgagt atgggtcatt 300  
 ccaaattgagt tataatacca tgaaacataa acgaaatgtg catgaattgc acaatatggg 360  
 agtttaagaa ggaacgggtg ttaagaatca agatagtcac tgagtccatt atgtaagaca 420  
 c 421

<210> 20020  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <400> 20020

cgtgatagat atgaatgttc aaaaccaata caagagagag aattttattc tttattttat 60  
 tctaattcgc cataaaaagt taaataaaaa taaatgtgga ctttgaaact ctgattatct 120  
 tcgttattat tatattagtt aaattaaaca attttagtaa ggacgtctag ctagctcaat 180  
 agattgatat agtatttaat ttctgtggat aaaaaaatc tttgtttgat actttaattt 240  
 tattctattc taaaagaaat tattttttatt aatagcttaa ttatataatt cgtcatttaa 300

ttataattaa aaattccatt gagttcgtca attattaaaa cattaaaatc tcttaattgt 360  
 ttaaaacatt tccgttatta ttttttgtcc attacagaat caattatata attgagtcct 420  
 ttattaaatt aatgaaattg cacatgtgat cacaca 456

<210> 20021  
 <211> 192  
 <212> DNA  
 <213> Glycine max

<400> 20021

agctgttaca atatccattc tattcaattt cctttgtcat gacaccacgc tctaccatga 60  
 aacatagagc ggaggcagag cactctacac atgtctcatt ccaattccac agctcttctt 120  
 actcacatac ctactaaca gtacattcgc ttccaatcga caaccattgc atcggtcga 180  
 ctcataaact ga 192

<210> 20022  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<400> 20022

ctataaatct aagcttctta taagctgaac cattgtatca agatacacat gttgagtttt 60  
 attcttatta ttacagtcca tctcttttat cttagtgaga gtgattctcc taaattcttg 120  
 agtgatgaaa gaacaccctg tctgtatcaa atgactctca caacctttgt gtgtggacct 180  
 ctgcggatag agtgattctt tccttacttt catcctcaac cttgttcttt caaaacacaa 240  
 t 241

<210> 20023  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20023

agctttgagt tttntcaacc attgaatcaa aattctaag tatatgtata tatctatcta 60  
 tatttgttta ccaatgatcg aaattttaat ttgacaacaa tgattgattt ggtactatat 120

gtaaaggaag ctttaacttt tgtcagccgt tggttataaa ttttaattaa taattattga 180  
 tttcattcaa taaatatcta gtatacttaa acattttattg ttgaatcaaa attctaattc 240  
 tataacaatc attcatatgg ctattgtaaa aatatttgta gaaaagacat ccaatatttt 300  
 atgcaacgga atttttttgt aaaaaagttt acacatttac aacaaacaga attttttact 360  
 cccttgattg tatttttactc ccatcgtttt ataatcaatt taaaa 405

<210> 20024  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20024

tagcggaag aagatccacg aagaagccca nagacatgct ttgctcacc tctaccaca 60  
 caaatatata ataataataa aaggaaaaat aatgcgggat taattaaaag ttttaaaaca 120  
 catttaaata aaaacaattc aaaaagataa aatgttttaa tccacttagt gaaatcataa 180  
 tataacttgt tcgaataaat gataaaattg tcttggtcca caacaaggcc acccatttta 240  
 aatggagaga agtcacacta aaacagaaaa catataataa ctatatcatt catggattta 300  
 taacatatga aataaaatgc tatgactcga tgttgcatat atcagaatat tttcttgcca 360  
 gaggctaagt ctctccatct tcaactataga actcatcata tgctaactca cctgaaacaa 420  
 tatggtaatc aacccaaaca caaacacatt gtgagtgagt taccaca 467

<210> 20025  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20025

agcttctagc ttaatggact taccttgact taattccttt tatagccctt ttgagccttg 60  
 tttccctttc cttgctttga agctcactac aagctttaag tgaaaaacca tgatatcacc 120  
 atatccttaa ggaattttgg agctttggaa ctggtttggg aataagtgtg ggggtttttg 180  
 tttcattgga taacatgttt tgttggtcat gttcatgat atattatgag ccatacttga 240  
 tgtacattgc atattgggta aatgttggac atgctgaata tgatgttggt tctcaaaggc 300





<210> 20028  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<400> 20028

tcaatgcctg ctgtattctt tgatttctcg tctccatgga ttggtattaa tgaatagcag 60  
 gctcaagtct aaaatacagt cttccaaact tgtattaagt taaagtccaa agtacaagtt 120  
 ctccataaga taatttcagc aaggaaagat gcagtaaaag gagaaatgga gaatcaagtt 180  
 agcaaatact caaacatggt tgaattttcg attttttatg agtcagatca accggtaatg 240  
 ctaaattcaa gaactcatgt gtgtcttaat cagcagctaa tttttcttat atataatatt 300  
 gataccaaat tgacgataaa ttactaattt acttgcaaac gaagaaactg gtatttcaac 360  
 ctaaaaggga caaataattg acgatagcaa tttttataaa atatttaatt atcttaaaaa 420

<210> 20029  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20029

agcttctata ttatctgttc cattntatca ataaacacaa gttgagtttt attcagaaaa 60  
 ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
 gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
 agtgattctt tcttctctt catcatcacc cttgntcttt caaaccacaa ttccagagaa 240  
 tccacctctg ccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300  
 tgattcttga gctaaattg aatttcataa cgagaccttt cacctcgta tggaatcacc 360  
 tcatttgagg ccctgtagct tcagttattg ccatttctat atttctgt 408

<210> 20030  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20030

tgccttgccc catgatatat ttgagggact tatgatcact atgtatgaca aattccttgn 60  
 gataaaggta gtgttgccat gttttcaaag cccgtactaa ggcatacaac tcctaatacat 120  
 aagttgaata gttaagggtta ggaccactta gcttttcact aaaataagca attggatggc 180  
 cttcttgcat caacacagcc ccaatcccaa catttgaagc atcacactca atttcaaaag 240  
 atttttgaaa gtttggcaac gcgagtatgg nggcattagt tagctgttgc ttaagaacat 300  
 tgaaagcttc ttcttgtttc tctccccatt tgaaaccaac atttttcttg agcacttcat 360  
 tgagaggtgc tgccaatgtg ctaaaatcct tcacaaatcg tctataaaaa cttgctaagc 420  
 catgtgtcgc aacctaccct tctgc 445

<210> 20031  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20031

agcttagcat tgttgtgctt agcggcacca tgaaattcag aanattcact aagtatggng 60  
 gcttagtgag caaggctcgc tcagcccaat ggctgccgta atgaaatggg cttagcccag 120  
 ataggcttga cttagcgcac gactttcaaa aaaaaattgg actaagttac ccgggcttag 180  
 cgattcagcc tcgcttagcc ccaagtatct caacaggagg atgagtgttc atcctcacia 240  
 gatgagcttg cttagcgcgg taggtgcgct tagcgagttc gtctagaaat gcatatattc 300  
 aatgaatatt gatgaactcg cttagcatag catgctcgtc tagcgagttc att 353

<210> 20032  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20032

tatagccttt gtgaatctga ggcacaactn tgaaatgata tataatctctc atgtaaagga 60  
 tcctcattcg atgatatata actaanaggg actctntcac tctcacttga taggtagata 120  
 gtatatattg attggaatgt gcggcatcga catgcgttct gcttgatgta atttttaaaa 180  
 ttataatatt ctttctaata tggctactaa tgtacgttta gtggagaata aataactatt 240



<211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20035

agcttgacct ttcccgaccc aacccgagca tagtcggtca gtgagaacct gtgatgtacc 60  
 taagcaggcg agctcctggc agtcaacaga taaaaggaaa ataagaccac aaagcaagga 120  
 ggcttgtggt ggctggccag ctgtgaatnt tgtgtaatat gtggattgtg gcctctggta 180  
 atcgattacc aagggtgggt aatcgattac aaggcttata attgaagaca ggaggctaag 240  
 atgggtctctg gtaatcgatt accaaggggt gtaatcgatt accaggcttg aaaacgaagt 300  
 caggatactt aaggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360  
 gaatgggtca ctggtaatcg attaccatgc atgtgtaatc gcatacatag t 411

<210> 20036  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20036

tctatataag ctgaaccatt ntatcaataa acacaagttt agttttattc agaaaattag 60  
 agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120  
 accctggctg tatcaaagga ctttcacaac ctttgtgtgt tgccctcgct ggaaagagtg 180  
 attctttcct tcctatcatc tccacccttg ttctttcaaa ccacaattcc agaaaatcca 240  
 cctctgccca aaattatctc gtgaccataa ctcccatttc acacactcaa attaagtgat 300  
 tcttgatcct aaattgaatt tcaaaacgag atctttcacc tcgttttgga atcacctcat 360  
 ttggagccct gtagcttccg ttattgccat ttctatattt ctgtccagcc accacttaac 420  
 ctacgttgta ccatcccatt catccatttt atg 453

<210> 20037  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20037

agctntgaaa tctgaagttt aatattcaaa tgatcaaagt tcanaaaaaa tgcacacaca 60  
 tgacctctat ttatagccta agtgtcacac aaaattggag ggtttgaaat tgaatttgtg 120  
 gagccaaact ttggagccaa aatttcacta attatgatta gtgaatttta gttatggttc 180  
 agcccactaa tccaagatca aatataatat tctccactaa gtgtgcttag gtgtcatgag 240  
 gcatgaaaag catgaaggac atgcacaaag tgtgactata tgatgtggca atgaggtgta 300  
 gtaagcaaat gctcacctgc ccctctaaaa tntaattgga ttgngcttct accaattcaa 360  
 ttaaatattat ttccaaccac acacatcaaa tatccactta gtgcatgtga aattacataa 420  
 ctaccocctaa taca 434

<210> 20038  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20038

taataccagc agaagtaaag gcaaacatca tgttatatgt ccttatgttt tgttggtaat 60  
 ttttaccatc agctgtattt tggtaaaca gaagttgatg cagaagttaa agtggattct 120  
 gtaacaatga acgttcaact ttaccatctc cacaacataa gctgaacctt gggcttgaac 180  
 tattttttaca tttttctatt ctttcattat accacatttt gcattacagt gactacattg 240  
 catgagctgg tcaccaagat caaaatactc tgaaatgggt aaattagata tgagtaaattg 300  
 atggtaacca ttgattatat ttgacagga atatgtaaat tatagcatga tagataaaag 360  
 tatatttttg attgactatt ttaatttgaa ttntaaactg aagtacttgg atcagacatt 420  
 tatcttctgt gttagttgca gagtcattag atgagaattg acaattt 467

<210> 20039  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20039

agcttgtata tttccncttt ttatggtnca tttggagtaa atcttgtaga taagtctcct 60  
 tttatggtta acgttgtctc tagaacattt ccattggatt taacgatgaa atctgtgcat 120

tttcacgtga aaaagaggct aagttctgaa ttgcaaatg tagcagttgg gctaagcgca 180  
 taaccaccgc ctaacgcagc ttcagcgtgc atagcgcaaa ggagaatctg gcagagcatc 240  
 agcatcaaag tcgcgcgcta agcgcgagat aagtgcgcta agcacagcat gtgccttcag 300  
 ccaggctaag ctcgagactg gcactaagcc caatttcact tactcacgct aagcatgac 360  
 gtggcgctaa gcgcagtggt gcaatttcag agcctattta aagcctgtct tgtgaagaat 420  
 atggtacac 429

<210> 20040  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20040

tgtagggtta aagtctcacg attgtcacgt gctcatgcaa caatttggtt ccgtggctat 60  
 acgagacatc ttgccaaaca aagtcagggt cagcataact tgccctgtgct ttttcttcca 120  
 tgctatgtgt agcaaagtga ttgatccagt aatgtttgat gagttggaaa acgagaccgc 180  
 aattatacta tgccagttgg agatgtattt tccccctgct ttctttgaca tcatgattca 240  
 cttgattgtg catctgggtca gagaaatcaa atgtcgtggt cctgtttatc tacggtggat 300  
 gtacccgggt gagcgataca tgaagatctt aaaagagtat acaaagaatc tatatcatcc 360  
 gaaagcatct attgttgaga ggtacattgc agaagaagcc attgaatntt gttcagaata 420  
 cttagagacg gctaaagctg ttgggcttcc tgagtgtcng catgatgaca 470

<210> 20041  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20041

agcttgcttg ttcttggtta taattcacgc ctgaataaat tagaatagct ttatgatagt 60  
 ttgaatgttt gatttttcat ctaatttttag tctatttttg ttagaataa aatgaagaat 120  
 aaagatagat ggtgttgggt gccaatcga gaccctttta taggaaattt tttgaggtag 180  
 aagggatcag acatgtcaag ctcaacgcac acttcangct aaaggaattg tttctcctgc 240

atgggtatttg ggctcaacgc ccactttatg ctcaaagcgc agtcacttaa tctagtactg 300  
ctgttgcaag cacgcttaac acgacatgct 330

<210> 20042  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20042

acctataaat actcaagctt gtattccaga tctttngaag gctgctctca cttgtctgga 60  
caatgtgttt gactctgacg gatctcttcg tgccttgagg gctaattgat tatctctgga 120  
atcctgttgc ttggttagat tatatctttg ctgcttcatt tgcttttgct gaaatactat 180  
gattcactat ntttatgtaa gaaatgatgt gttgggagca ctaatagaac taagcttatg 240  
ccttctaaaa tggatatgga caatctatgg tcaagtggaa aacatgaccc atatcttgaa 300  
gctttcctag gaatccatgt cattattata tgtgataact gataactaca ttttaatacgt 360  
atcctctccc cttaatccat attgctgtag agaatactca cttgntctgc tctctgactt 420  
ctgtat 426

<210> 20043  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20043

agctttcgat gttccggtct gtgagacgac agtcacgtgt tcgcatatg canagatgat 60  
gttccgagta ctttggatth ggcccgacca tgcctcctg atttccagct gggaaattgg 120  
cgagtggagg aacgcccctg catttacgca acaagcataa tgtagacctt tacggcccta 180  
aaagctctat agttgggcct atgctttaga gatttcattt ctggaaggct ctgtgtcttt 240  
cgcttttgaa tgcatagtac aaggatcttt cttcactcta gtccctggtct ctacccattc 300  
tcattcattt gcatgttgac tatcttttct aatacagcat attcgatgac gagtccccct 360  
gaggactactaa tacct 375



<210> 20044  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20044

nttcattaac caagttgaca aatgtgatcc ctctagtcca attgttatga ttaatgaaaa 60  
 tgctagaact agcanaattt cacgtttgtg gattcttgct ctttagcctt accaacatcc 120  
 aagttcagag ctgaatagta tttgatgtta tgtttcacca aaatgtgatt tttatagtgc 180  
 tagtgtatgc ctatattcta tttggatctt atatgagatt tgggtgccctt aatattctag 240  
 ttgtatgttg aaacacatga ttgtaagttt atgttaagca acctgctaga tccccaaactt 300  
 tagtttatat ttcatcattt catgttataa gtatcttatt ctgccattac tgtgttatta 360  
 atccatcatg cttcgaataa gagagaacct gaca 394

<210> 20045  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20045

agagtgtctt ggataagacy cttagagagg acgctttaat ggacgacgcy actgagcgag 60  
 ggggggggagg ggnannnnnnn nnnnnnnnnn cccccccccc nnnccccccc ccccccccn 120  
 cccncccccc cccncccccc cccccccccc nncncccccc cccccccccc ccccncccc 180  
 cccncccccc cccccctcc ccccccncca cccccccccc cccncccccc cccccccctc 240  
 cccccccccc ctctctnccc cccctccct cccctccccc cctctctccc cctccccccc 300  
 ctctctccc cctctctctc ctctccccc ttccctccn ttcccccccc cccccctccc 360  
 cccccccg 368

<210> 20046  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20046

tgcttctaca gtnnttatcg ttttttcgca agattgtttt tataccaaat agaagtcggt 60  
 taagggtgttg gaccttttaa cgatcttttg attcttgaaa ggagagaatc gttaaggcgc 120  
 ttgacccttt gaaaaatctc ttgatttttt ttaacagaga gaatcactaa ggcgctggac 180  
 ccttttcgac gatctcttga tttttgaaaa gggagaaagt taagttgttg tgttctactt 240  
 atttatgtta ttggattttg agagtttaaa tatgtgatag aagaattcag caatgcaaca 300  
 aaggaagggt ccaattnttt atgcaattat ttgaatattt acttctaata cataaacaat 360  
 taaaactaat aaaatattaa aaaaaagtat gtatcattaa tattatggat acgtctagag 420  
 aaaaaacata taaatctagc taatagtagt gagttagcta attga 465

<210> 20047  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20047

agctttgatg ttctgaaaca tttaaaatca aacaacaatc agaaattcat cactttaata 60  
 ctaacacagt gcattatagc taacttacat atgggcctgt ttcttgcaac agaagcaatc 120  
 ttttaaaatg ttccacaagg gtagaagaat gtcttcatac ctgcagagca aatgttatac 180  
 ttgttattac gaatgggaag tattgagtca ttgtgtgctg tcttgagcta atttcttttg 240  
 tgtttatact atctccttgt tttttctgcc attcaaagga ctgaccagta tagtttctat 300  
 atcatcaaaa cataaggtgt tttcaaagct caatgaggca accccttgac aattattcat 360  
 gcgtgattca acatgcaaag ttataacaga tgaaggcagc ttncacagtt accactaaca 420  
 gcatctagcc tgattaagat 440

<210> 20048  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 20048

ggacctataa aactaagctt gacaatatgt gggctctgggt atactgtcta ctttctgtac 60  
 tctttttcga tgaagcactg aatctcatct cacatgataa gacatgcatg aagaccatag 120  
 actctgtaca cactcacatc ttaatactga gcacagctac ttatgaggag aactacactg 180

agctacccta cctgatatga tgtagacaca cttccctgac atcatacatg actttacaca 240  
 attttaccct actttcaata ctacgagtga tacactgata tacatgacta cctgcctgta 300  
 ctggaccaag ggtcattata caaagtctt 329

<210> 20049  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 20049

agcttcggat tatgttgaac atcacagtaa tgcctcatcc attctttgca taaatatgac 60  
 ctctcatctc ctcttttttg gtacctagtgt tttgtggaat tttatatatc aattagctat 120  
 taagaagcag attgcatgtg aagctttctt tggaatcatt actcattgta aatgcattca 180  
 ttttattcca tgggatatat tccataatcc ccacttattt ttgttagtgt gcgcatatca 240  
 ttcagtgtat tattaaccct tttttctatg caacttatac cgttattatt tctaagtagg 300  
 tctgttcaa ttttcaagggt gagttaacaa tattgataac gtatttgta aaattaagca 360  
 tacatcgga tttagtatta agcatacatt tgctgggtctc tttaaatgta ttttaccac 420  
 agcta 425

<210> 20050  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20050

tgcttanact tgtgatcatt ctgcacagaa cgcaacctat ttattattaa caatntcata 60  
 tcactctcct aaacttaciaa catacaaatt taagcaagaa ttcagataac aaattccact 120  
 ctctccctt ctatttaacc aactcaaac agttcaaat ccaattgacc actaatcaca 180  
 accaatggaa ctcggtattct cgtactatca tttccacaaa gacacaaaca gctaataaag 240  
 tcggtattat gtaaagcttg ctgcgtcgca tagtacctca tcagcaagaa ttttagagca 300  
 gttgaagcaa acacaacgca ttatagttaa gacggtcttc aaaaaaccaa tatggaacat 360  
 tggcttagca agctccaagt gcccaaatg gccagggcac tcagccatac tcgccgtgca 420

agtttcacac ttcaactgtc tgtcaatggg tccaagccga gggtcactca atc

473

<210> 20051  
<211> 351  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20051

agcttgtttc ttacagtaat catggagggtg gcatatggca gatatgcctc catctttaca 60  
atccatgact tgaaagcact taccttacac ctganaagtt ttagcccaaa tttgaatagc 120  
gattgtctct attaatcccc tagttacttg ccttgccctat cacactcacc tatagaatct 180  
taccagcttc aatgatacct taccagctnt aataacatag tagaattgat cagccacagc 240  
attgaagcaa gttgccccaa tttttccacc atcagaatcc acaacatcaa aagattaatc 300  
ctaccagcat aatagaggta gacattcttg gcctatagag ttttactact g 351

<210> 20052  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20052

tgagacttaa ttgctntggt cttcccataa gcagtagtct tcagttcact ctcacccatc 60  
tccattacaa gcctttcttc ttcctgaaca cacatgggtca ttaattcatt gatagaccat 120  
ttatctttat gtgtgttgta ggaaatctta aatggcccat attcatgtgg aaggggtgttc 180  
aaaatgaaat gcactangaa ggactcagac atatcaacct ctagtttctt aagttgagct 240  
gagatatctc gcattttcat gatgtactca cgcacacctt tcacactggt gagccgaaga 300  
gaagaaaact tcatgatcaa ggtgcttgct aaagtcttat ctgaagtgat gaactggtca 360  
tcaatggcct taagcaagtc tcggaccttt tcatgctggt caacagaacc acgtatccca 420  
gccgagattt tagtcttaat gaacatcacg ctg 453

<210> 20053  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20053

agtatctgtg ttatagcctc cctcttttggg tgtgctcgca cagttggccc tcctccaata 60  
tcagggggtg gccaggaac cgtaaaagg aaactactgg tcccttaacc gggagttcaa 120  
gtctcggtta agcatttaag gacagaggac cttaaattct cttaagggtg agacgtggag 180  
cacactgaan atgaggacac gtagccctct aaaggtgagg gcgtagcagcc ctctcaagac 240  
gaggatgtgt agtcctatga tggcgaggac atgtaatcct ctaaagggtga gggcatgtcc 300  
ccctttgaaa atggnngaca tgtagtcctc tgatggcgag gacgtgtagt cctctaaagg 360  
cgaggacgtg t 371

<210> 20054  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20054

tctttgagan aacttccttg agaagctaga gcttagctac acactcccat ctaanaacta 60  
agctcacctc cttgagaagc ttccttgaga agctagagct tagctacaca caccctcta 120  
ataactaagc tcacctcctt aagaagagaa gctagagctt agctacacac ccctataata 180  
cctaagctca cttccatgac aaaatacatg aaaatacaaa aaaaaatcct actacaaaga 240  
ctactcaaaa tgccctgaaa tacaagacta aaaccctata ctgctagaat ggccaaaata 300  
caaggcctaa aagaagaata aaaacctatt ctaatattta caaagaagag tggacceaac 360  
cttgacccat gggctcaaaa atctacccta aggttcatta gaaccctaag gccttcttta 420  
tcagctctag cccaatcctc ttggagcctc ttgctcatgg ctctgg 466

<210> 20055  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20055

tagcttgagc tctcacccaa tcttgcaaca caatgttggg tccaagggtta tcaaactcga 60  
cagtttacgt agactcgtaa gaggccata gactcaactc gtagacttat acgagtccac 120

ttcatataaa aataataaca aaatatctat aaataacata ccaattaaac attntaaca 180  
tataataaag cagaatagta aatcataaat ttcacaatac tgaaataacc aagtctagta 240  
atgcatcact actagataat aacttgcaga ttttatagta gtggtagagc attcccatca 300  
aggatttgat gttattagag aatacgggtt tgatgttatt agaggtgaga gtttttcaat 360  
tcaggaacaa cacac 375

<210> 20056  
<211> 437  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20056

ctgaaggtgc gtagcccacc attntccata gtagaatact gggtatgtgt ctactatcat 60  
tgtcatcggt nttttgtcat tgagggtcca ctttgagctg ccagggtctc cacctttggg 120  
cgtattcttt gaaagattta tgcccccttt ttgcacatgt tctgtagttg catectatcc 180  
gaagacatta tactgacact gcctaacgaa ggcaaccact aggtccttcc aagaatggac 240  
tcgggaaggt tccaagttag tgtaccaggt aacagctacc cagtaagact ttcttggaag 300  
gaatgtatca gtaattcctt atcttttgcg catgccccca tcttccgata atacatcttt 360  
agatgcttct tggggcaagt agtccccttg tacttgtcaa agtccagcac ctttgactng 420  
ggaggggtga tgatatt 437

<210> 20057  
<211> 438  
<212> DNA  
<213> Glycine max

<400> 20057

catatagttt atatgtataa ccacatctgg cggggtgacc gttctagcac agtccaacat 60  
ataatcatgg ggcacgacca gaaccgggga tgagaaatga atgagccatg aaccgagagg 120  
atgtctcaca ggtagcttat gaagacagaa gacactcagt cccattctta gggatgctag 180  
gcacacggct gaactgagag accatgaacc tgctaacggg agggcgctat tgctaatca 240  
gacaaagatg agctctacga tggaggctta gactagtatt gcacatcaag aggcgggacg 300

gacgcacgga gtgagcgtga ctagggctcc aacgaatggg acgagaagag attcccccat 360  
 gcgatgacga taattcatat acaagtgagg gcctgaatcg ccatttagct ggtgacaaca 420  
 tacagcacat atggcaag 438

<210> 20058  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20058

actcaagctc accaccttga ggacaaggag gattatcaag ggccatggaa cgatatgtat 60  
 actcacgang caccaagggc aacggcgag gaggaacgac agaccaacac caagagaagg 120  
 gtgaaacagc caacttacct ggaggacgac acgacttgag ggcattgccg gaagaagaac 180  
 ctacgaacca cgagcccaat acagctcgtc gtacatgaat tctcagagcc cacacatgca 240  
 aaacaacaac gaga 254

<210> 20059  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20059

agcatgcgan gttatacgtc gtgtatcaga tgaccaatgg tccctgctgc tgtgctccag 60  
 atttcataag aatcattggt ggataggcag atagataagc tagactatta tggccttcac 120  
 tcaagaatca tctttcttcc actatagaca actttgtcta tactatatgt aacaattcca 180  
 gagttaattt ttggagagat acctggtgct tggattgacc catctataga gatttgctaa 240  
 ttcccccttc tcattacaag ctcccttccct tatctgtatc tgacttcagg cacctaaaca 300  
 actggatcat ccctacaacc ttcttgatcg tggt 334

<210> 20060  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<400> 20060

tcgctctgcg acaaatactc agatctcttc gggaacgtga actctatctt ctatcacctt 60  
 cgtctacgcg acgccaatca caaccaaca agttccaaca ctccgttgaa ccaccgcagt 120  
 cttgtaaagc tcgacattgc gaggtcctat cttatctttc aggaggcacc ttccctcgaa 180  
 gaaggaatac tctatttttc tctcgatctc gatcctgcca tctaacaacg tacatgtgaa 240  
 aagatcaciaa gttggaatgt ttagttgaga ctaaaaccag atcattgcat tactactttg 300  
 gaagctataa tgcgatgaga accggagaat gctccacaca taagctattg gctaccaaga 360  
 tccattactc taatttcaga catattatta tggt 394

<210> 20061  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20061

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 acctattntt tcactttttt tttctgacta ttcattatta taatattagt aaataactct 120  
 agaattttgt tgatttgat atttgtgta tttttcatat ttagaccttg tatttgcac 180  
 ttttgtgttt tcatcactca gttccatttc aatatctcag ttgcacactt cttttcaaag 240  
 aatcattata caagtatata tatttggact ctattttcct tcgtaaaaaa ngtttgctga 300  
 tctttcttta tgactaatgt cagaagggtt catatcaaag tatcgtacat gatgtttcag 360  
 tagaaactaa ctggatattt gacatggatt ctcttggtgg caattatcag tatatgtaca 420  
 aatatatat 429

<210> 20062  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20062

gcttggtggt ccaggttgca ggaccaatac aactcaatn tgcttttctc caaccttacc 60  
 aacaagggtg agtataatcg aaaaataatg gaattcttca agtatgtcat taagggttta 120  
 attcttctta atgtgtatga aaaaacaaac tttgttgaga aaaacaaaat ttactagaat 180



aatctttatg tctcagaata aattagtctt tgaggatcac ttaagggata ttcttggtga 240  
 aaataataaa attaaatcca accttcaact tcatttgaac ctttaattatg taaaattttc 300  
 aattattata nctatttata tcatgctatg ctcattccatg tgcacacaag tacctaaaca 360  
 ctatacacta ngcttagaat tagcctattc ttttccaaat ttaccgtntt agaatgtacg 420  
 cgcncctcct atanggacca gctcaacaaa atttggttgc gttgtctata tcaatg 476

<210> 20063  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<400> 20063

agcttatcat gttaactata ttgaagtgt gttttgtac tttctttctc gccaaaacgc 60  
 agacaccacc accgtttcct ccgttacgta attaagacaa aacgcacgga aaagtaacat 120  
 taatgttgat taatgttgtc gtttggcgtc ggtttcttcg ccattaccaa acgaaaccgc 180  
 gtttatttcg tctggacgat gagacagtcg cgggtgggcc cgcgagtc aatggccatg 240  
 ttgtcccggg tactgacgtg ttagatatga cttttctttt ggtgagatga cagcgataaa 300  
 tccgacctga gtggcgtctc cgacgcatag atcaagcagt tgacggcgga gct 353

<210> 20064  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<400> 20064

cgccgcccgc aactccctct ccacgcagct gccagagttc tgcttcgtcg tccacctcct 60  
 ctgcttcccg gaggtccagc ccagcctcga gaaacacacc gaagacgtcg atttccaaac 120  
 ctacgataac tctcagaact tctccaacta cggaacgagt cgacccggcg gaaccgactc 180  
 gttcagaaac tacgccacca ccttctccag ccgttccgac aacagtttcc gccgctacag 240  
 ccgccgatcc gccggccacg aggacagctt cgtcctctac ggaggctcca tcggcgacat 300  
 ctaccagacc ttcaacacct atggcacttc ctccgctggc ggcgccggcg agttcaaaca 360  
 gtacgccacc gaatcaaaact tccccgagct tgatttcacc acctactccg acagctccgg 420  
 cgggaggagg cagtcgttct cgagctacgg cgagaac 457

<210> 20065  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20065  
  
 natcttaaca tanaaatgac atgctaatacc ctctgattta gaactaactc atgcacacgt 60  
 ttagtgtaac acatttatgc acaggggtat gtgtaaaata tctactatt tatgtcaacg 120  
 tacaaggaca tccaacacat tctagttacc atacatatat atatatatat atatatatat 180  
 atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat 240  
 ntctgaaaag aacacacatt ctcatgctca aggcactgcg tgaaaattca cacctaataca 300  
 cattctatat attttgctat cacacactac ctacacatat ttgaagcaca tatkataaga 360  
 tattcattgt gtcactcaca tttatttata tgcatatngg agagctatat acgtcgtgca 420  
 cataacttgca tttaaaaaag ggaattacat gccctcatac attcatttat gaagcgn 477

<210> 20066  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20066  
  
 agcttagaag ttatctanaa tggcatatca ctaaattggc ttcaacacaa agtgagcttg 60  
 ataaattgaa gcaagaaaat gaaaaaacttg tttcaagtta taaagcaacc ggttgtgttt 120  
 gtgcttctac atctcttaat atggattatt gcaaattctt gcaagatgag tttgaaaagt 180  
 ttaaaaatga tcacgatgaa gaaagtatga agttgtaaac tgagatttcc tatcttanag 240  
 atcatttgaa taaaggaaaag agtgatctta gtcacttact cagtgtgcaa aagcatacta 300  
 ccaataaaac tggtttgggg tataatgagc aaattgactt ttataagaaa actaagttng 360  
 caccctccaa aaaggatgaac ccaaacaaag tctccaaaaa gaanaacata gt 412

<210> 20067  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 20067

ntataacgga ggacaactag agcgattgat gaccatcatc tactttaatg acccttgaga 60  
aggcctagtg tctaactaag gacaataaac taagcgctgg ttgggaggca agccaacata 120  
ttttgtaaaa atggagtcac ttttttgtat tcattccaaa aaaaacagcc caacagctgc 180  
aaatagaaaa caggaggtgc agaaagtaaa ggcccagcag gtgaagtcag caataggaga 240  
ggtgacaata gcaaaaagaga agtgggctac acgaagccac gcgcttagcg cacgtccagg 300  
cgctaagcgc ccaggtagct tttcaaattt ttgaatttta aaattctaag ggaaaaccaa 360  
gggacgcttc ccttggtgcg cttagcggcc atgtgcgcgc taagcgcggtg aatcataaat 420  
tacagggcag ttttcgaaac tgctgaccc ctcaagtacc ttt 463

<210> 20068  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20068

agcttgtagg attatggngt atccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
gcaaaacaat tctccacatc cacaaatcac gtataacca ccatcccatg ttgccacct 120  
caactgagct cacatactcc cagtagccc ttatcctcgt tcctctcaac gccgggtccc 180  
catcaatcct cccaagcttc cacaacatcc aagtaattca acatccaagc atcatgaact 240  
aacacatcca agaaaacagg gcagaggcag aaaactctgc caaaaacaca aaccaacatc 300  
acaacttttc aactcaatt accccagtaa tattctcttc gttccaattc gttaccgtt 360  
ggatcgactc anaaattnta ctggaagtct ctagcacata aatctacatt atg 413

<210> 20069  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20069

tgctatttga nactatagtc attntcattg tcatgtgaaa acacatacac acagcataac 60  
aatattatgg aaattatttt ccagaaatta ctctaccaa aaggattagt accagcttat 120

tgatcataca aaaacctatg ttccaaatca cccaaaataa aggatggact atcttttttt 180  
 ttctaataa agttgttgag aatcacgaat ttaatgtata atgatatgat aggatatgat 240  
 atctgattta gaggaactg aatatcctct aattatgtat aaccaatact acctgtctat 300  
 ataaacaagc atctgttggtg tattctaaca cactgtttta gtctactatc cctctatatt 360  
 ttatactatt ttacaaaagt aaaccctttg aaacanatta ngagcagana ananaaacia 420  
 gagattaaca atacaaaatg gagtgcctct tcaaaca 457

<210> 20070  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<400> 20070  
 agcctgtcgg ttgcgattga cgaagggcgc acaagacgac gttagtctct gcatgctatc 60  
 aggtttttcg tcttacagac agcaaaaaag aatgtttata cggataacca ctggggtttt 120  
 tccgccgctc agcgtgactc acatgtcagt atgacaaatc ttgtgagcgc ggaagatgac 180  
 gtaaatctcc gcgtgtcaaa gggcttgctg gccgcgattg acgaaagacg tacaagacgt 240  
 cgttagtctc tgcgtgctat caggctttac gtcttaactg acaccaaaaa gaatgggtat 300  
 acggataacc actcgggtat t 321

<210> 20071  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20071

agcttctttt gtttgggatg tgtgctctat cagcaagat tgtatgggtca ctagcagcca 60  
 tattcttaat taattccatg gcttcttcag gggctttcaa ttntattttt cccctgcag 120  
 aagcatctaa aagcttcttg gattgtggcc ttaaccgctc actaaaaata ttgagttgga 180  
 ttggttctga aaatccatga gtaggtgtct ttcttagtaa cccacgaaat ctttccaaag 240  
 cctcactcaa ggactcgtct ggaaattgat gaaaggatga gatgacagct tttccttcag 300  
 cagtcttgga ctctatgaag tattttcttca agtatttttc aaccacttca ttccaagtct 360

taagactgtt accttataat gaatggagcc atc

393

<210> 20072  
<211> 468  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20072

ctttattctt agtntgtccg aactgatcaa aattcanatg atctatggcn ccttcatttt 60  
atttcttgag caaactaatg ctgagacttg gtactttaac taatctttgg tcttcttttc 120  
tatgacagcc acaaaatggt ccaggaatag gtgagttggc tcttggtccg ctcatgcttg 180  
gggcttcana tacactgctt aacgctgacc attacggtgt ctatttcaaa ggaatgcctc 240  
tcttgaatgg aaaggtgggc ataccattct cctttatgtg gtaattgggt atctggggta 300  
cctgaaaact tacggttgag tttgtctaata cagggtattac ggaggcatgg agatgtattt 360  
gagcgactg ctagaggata ctatcatgca catggtcgtt cggatgatac gatgaacctt 420  
ggnggaatca aggggaaata ttgcctatg tattaattat taaaatag 468

<210> 20073  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20073

ctcatgtcaa cgatggagca aatgctagtg ctggtgggag gtttctcaat tgctgatttc 60  
tacccttcaa tcaaagtgt tccattgtc acaggaatga aaagtaaact tgaaagggcg 120  
cacagagaga atgacaagat cctacaaaat atgggtcaagg atcacaagga aaatgagaac 180  
aagaatgggg tgacgcacga ggatattatt gatattcttc tcanaactca naagagagat 240  
gacttggaat tcccttgac tcacaacaac gtcaaagcac tcactctgggt tagtatgcaa 300  
tttcttttaa cattacttta agattcccat gtatacaact atatactgc atagatatga 360  
aatttgctga aataataact tacactttta tatatataga gagagaggga gagagagaaa 420  
attgagtagc gacttattaa taaaata 447

<210> 20074

<211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20074

tcctcggagc catttcttac aaagacacat ccaactaata tttatcatga aaattatattt 60  
 gcatgaaata cataaccata ctatttttagt tatcccaagt atagcaacca agaagtcaac 120  
 caattctttt gtggtcttta ttaattgtag gtgttaccat acaactaata aagatcacca 180  
 ctcaatgtgt attattttga aagaaagaat ttgatattct gcaaccattt atgcgtaatg 240  
 caccacctt ggtgcagcaa gtttaaccaa acaaataggc caattcaatt cgaacaactt 300  
 taagcattca tatgacttat gtaattgcat ctaaagcaat gtccaaaacc tcaagtttag 360  
 ctcaccttg gcatttaatt ntaacaacct aagttgatca ttgtcgcgac ctgccctccg 420  
 cgtgggcca ggggtgctct tccatcanag gaaaacgcgt ggag 464

<210> 20075  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20075

agcttgtaaa ggcttagaga atatnggctg tatgatcctg tggaggcttt agtatagaaa 60  
 gaataccata aagtgcctga tcttagtgga aagcctacag gtgaaggat tggatgtagc 120  
 cagagtgggg tgaaccaata taaatcattg gtgtttcatt tgcttcctta ctacttattg 180  
 tttgatgttg cgtgttgaag ttttgtttca gaaaaagggtt tttataaaat tggtttaata 240  
 tttagaagca aaacctactt tgttctaaga gaagagaaga tagaaactca tagtcaacag 300  
 gttttgtatc atttgtgagt atgttctgaa gtagtaacca acaagattac ttggaagtat 360  
 tacttgaaaa tattcaccaa tc 382

<210> 20076  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 20076

acacctgaca tcacctatgc aggaagtgtt tgtgcaaaat atcaagccaa tctaagata 60  
 agtcacttga atcaagtaga gagacatctg aaagatgtat atggcaccag cgactatggg 120  
 attatgtact gccatcggtc agatccatcg ctggtcggga atcgtgacgc tgattgcgct 180  
 ggacgtgcac acgacagaaa aagcacttct ggagaacgtt cctattgggg aaccaatcct 240  
 atatcatggg tcaacaagaa gcagaactgt gtgtcctatc tactgcagaa gccgagtata 300  
 ttgcagcagg agacactcga cacaact 327

<210> 20077  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 20077

cgtgcgacaca tcgttcactt atatgatatc cactccttat gtttgaagta taggatacct 60  
 tcagccactt atcacaacgc ggtggacaaa agtgggcaga atacattgaa tggacatcac 120  
 agccaatgcc taacgtatta tgtgcttcac tatacatgtc cacacattat tgcagcttat 180  
 cgagcgtgaa ctactaccaa tatatagatg ttggttacac aaatgagcac attttaaaag 240  
 cttacttcgc acaatgatgg tctcttggga atgaagcggc tattcctgct tctgatgacg 300  
 catggacact tatccctaac ccaactacaa ttctgtcgaa aggtcggcct atatcaacaa 360  
 ggataatgaa cgacatggat tggctcgaac catctgatca ccgacaaata tgt 413

<210> 20078  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<400> 20078

agctttatta gaacaaaatt gcctaaatca tttccaaata tgcattgtgaa ttaagaagca 60  
 tcaacaagaa ttaagccatg gctattgtgc aagcaatcaa tggggcaaaa acacacacaaa 120  
 agattatgat gatggatggc tcaaattctc acaaaggtaa acttatcact ttcaaattga 180  
 gctttcaaaa ctatcatgac atgtagagga aaaataacga ttttcaatca cacaatgtca 240  
 agagactttt attttcagaa caattaccca tttcttgaac atatccta 288

<210> 20079

<211> 432  
 <212> DNA  
 <213> Glycine max

<400> 20079

tgtgaaattc accctgatcc cgatgccata cgccgacttg ttgtcggcca tgatcaccaa 60  
 ccaaatggcg gtggtaaacc tagggaagat ctaccagtct cccttccctt gatggtacaa 120  
 ccccaacgca acctatgctt atcatggagg tgtctcgggg cattcaatag aacaatgcgt 180  
 ggctttcaaa cacaaggctc aaagtttgat tgacgcaggg tggctgacat tcaaagagga 240  
 caacctaaat gtgagtacaa aacctcttgc cagtcatggg ggatccgcag ttaatgcggt 300  
 ggaggagtat aaaccttggg ggctgaagca gatggaagat gtggtaacct ctaggagggtt 360  
 tatattagaa tcgttgtgcg aagcgggcat gatttgcctt gacgggcata aggagagttc 420  
 ttgtttgatg ca 432

<210> 20080  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20080

agcnttgatg catcatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60  
 gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gagggaaatga 120  
 tggtgttcct agacaaaacc gaattgatgg tattaaactc aacattcctc catttaaagg 180  
 aaagaatgat ccggaggcct acttggagtg ggagatgaaa atagagcatg tatttctcatg 240  
 caacaactga ggaggacaaa aaggtgaagc ttgccgccca cggaatttcc gactatgctc 300  
 ttgtgtggtg gaacaagcta caaaaggaga gagcaagaaa tgaagagcca atggttgata 360  
 catggacgga gatg 374

<210> 20081  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20081



acactataaa actaagcttg agatattaaa caacaatact nttactcgtt gtctgattga 60  
gtcatgtaat atttcgagac gctcgaaatt gaatacggaa gctctgagca aattcaaacg 120  
acaataactt tttactcgga tgtctgattg aatcccataa tatatcgaca agctcgaaat 180  
agaatcttga tgctctgagc aaattcaaac gacaataact ttttactcgg atgtctgatt 240  
gagtctgtg atatatcgag acgcttgaaa ttgaatacgg aagctctgag caaattcaaa 300  
cgacaataac ttttactcgg gatgtctgat tgaatcccat aatatatcga cacgctcgaa 360  
atagaatctt gatgctctga gcacattcaa acgaccataa ctttttactc ggatgtccga 420  
ttgagtcttg taatatatc 439

<210> 20082  
<211> 366  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20082

agctttttat agtgcagaaa atgttaggtg caatgcagtt gcacacaaaa tgctgacttt 60  
tcgtacaaga atgatgaggt cccacttaca cgcataatgtt ggatagcatt ccaaggtatt 120  
atagaatttg ggaatacatt nttatatctc atcaacattt tggttaacccc aaatgtatta 180  
aatagggtaa aagccatttt caatctcaat aactgatgtt cttttattta gagatttagg 240  
agttcaaaaat aagataagag gttnttcgtt gtttactaca agtcttagct agaatcacat 300  
gaaattcana attaaatata tcttaccaac atcaaactcc aatgttgcaa cggtgaagtc 360  
caacac 366

<210> 20083  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 20083

tattgtatag tgtgaaaaaa gtatgtatat aaaaatgtat ttgtatatat cacagatatt 60  
caaccaatta aataatcagt aataataatt aatataaaaat gaaaacaaat atatagaaat 120  
gataaaagaa tagttattaa taaagcaaaa gagataaaga tagaagatac tgacaaaaat 180  
taggaaacat gaaaactact attttacgta tttgttgcaa ttgataccat ttctatttgt 240

ttaactatat tgttgcataa tattaatatg ttttacatgt acaggacatg ctctgctgct 300  
tcaagccaac tgtggacatg aatcttacat ttgaggagat ataagtttgc gcatatgtgt 360  
tcaaccctaa tgtcgacccg aggtacgtag ctaacagtat agtgatactt gtagataagt 420  
tttcgttcat ata 433

<210> 20084  
<211> 389  
<212> DNA  
<213> Glycine max

<400> 20084

acttctatag cctatgtacc ataggcatca agctaactta ttagagtaga cgagtagaat 60  
gactccctat tctgtagtaa ttatagttaa ttatgttagt tgacctcaac caaccttacg 120  
ttactcgtca gttactactg ttagatgtaa taactgacta gctgaagaat aagtactaca 180  
gatgttactg acttaactag agtaggatga tggtacaact ccattcccga attctgagat 240  
cacaccctct tttcattacc gaaataatgt tatggcatta tagagcactt gattgcatcc 300  
tgagtaacaa aggctttcgc aaacacatga tgggtgataa gaggagtgc gctgttggat 360  
actaacaata gggtgtgaat atgattagt 389

<210> 20085  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20085

agtttgttgg attatggggg acccgtcata tatggtacta ggtggcgatc gggcgatggg 60  
gcaaatcaac tctcccatat ccacatatca aacatgaacc caccatccct agttgcccac 120  
cttcaactga gctcacgtac tctacgtag cccttatcct cgttctctc agcaccgcat 180  
ctctggttcc agtccctcgc gtttctctgc acccgtcggg gcccgtttcc gatagtaggc 240  
aatatatata tatatatcan aacgctcaga atgaaaccct ganggtgggt cagagggttag 300  
gtttgtaaat ttttagtggc acgcaaaacg aataatttta gactaattaa ttgagaataa 360  
tctat 365

<210> 20086  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 20086

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 gtttgactga ttaccaagc cattttgggg taggggtgaa tatatggcaa taattgacac 120  
 ctgggtgcctt ccacattttg aaatatgaca gaatcgtaac tataagtgtc acaattatcc 180  
 tgtgtagtac gttattttga ttggcataaa ggaacatgtg atatgatatt ttttagtatt 240  
 tacatttact taccactatg tatttctttc aggttaataa gaaatgtatg ttttaaattt 300  
 ttgcttatat agtgtaaact gctaaggaag ctaagctatc ttatttttat atagatctaa 360  
 aaattctagc actgatatcc agaattcatt atggcttgag ctgttttttt tctttgtcta 420  
 acagt 425

<210> 20087  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20087

agcttggatt atgagtgaga tagaagaggt acaggaacag atgaaggctg acatggaggc 60  
 catgaaggag cagatgacaa cgatgatgga agcaatgatg agcatgagga agatgatgga 120  
 ggттаacacc gctatagttg gtgttgcaag cactaatact gaggtggacc cgatccaccc 180  
 gtccgatttc aatcgagtgg gtcgtccggt ctcgatgta gtaggccaag gaggcaaggc 240  
 agcagaaaat gcatggnggc cccattatgt tgaagttcag agcaagcatt cttttccgcc 300  
 atatggtntg cctcccaatt ataca 325

<210> 20088  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20088

tatatntac	aataaaaata	tctgtttgag	agatgttttg	ttgaccttag	ccaacaatc	60
aatccacaat	tatTTTTcaa	ttattattct	aatcgatttt	TTTTTgaaa	tttaaccttt	120
tatttcagtt	atttactcat	attcctagta	gatcaccttt	agtgaaataa	gaggctgatt	180
tctcctctta	gtgatcatat	cgattgattc	aaacattcaa	aacattcaaa	TTTTgaaatc	240
atgttagagt	agttgtagct	gaattttggt	cgactaattg	ttgattattc	atgtgaaaaa	300
aattggcatg	tctggtacga	ccaatgtagg	tgaattgatc	aaacaatttg	aatcacgaac	360
gaagtTTTtac	caacatatgc	atttgcattc	tcgtaagact	actatgcgtg	agatgaat	418

<210>	20089
<211>	371
<212>	DNA
<213>	Glycine max

atctgctcgt	cttgctgata	tttatcatgc	acactnttct	gatgatgacc	tangaacaat	60
tagggatcaa	cttgaaactt	atgtgcttca	agtgagaaga	aatgcttctt	tgtccacttg	120
tgaagatggt	caaagtttgg	ctatgaagat	ggttcagact	gagaaacatt	tggtatttcc	180
attggtttat	aaacttattg	agctagctnt	gatattgccg	gtgtcgacag	catccgttga	240
aagagctntt	tcatcaatga	agattatcaa	gtctaaattg	cgcaataaga	tcaacgatgt	300
gtggttcaat	gacttgatgg	tatgttacac	cgagcgggag	atattcaagt	cgcttgatga	360
tattgatatt	a					371

<210>	20090
<211>	432
<212>	DNA
<213>	Glycine max
<400>	20090

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aatgtgacct aagcgtttgt gctataatac tcctgagttt gtatcatcaa ttctaagctt	120
agtaccatgc aatcttgcatt taaaggattc accataggag gctacagtat caagtaaattg	180
tagattatca ttaagcaaga gtgaaccaga tccaacaata tctgaattaa aagacaacct	240
gaacacattg tttccaaatg aacacaaata acctaatctg tccaaataag aaacagaaac	300

caaatttcgt ctaaatgacg gtacaacaaa agtgtctttc acatccaaat aaaaaacagt 360  
 acataataaa aatctaaagt gccctatagc tttcacttcc accgatctac catctccaac 420  
 atagatcaat ct 432

<210> 20091  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20091

agcttttcga ttcattctat gtaccgtag tggccacat tgtgtttcgt gcatttttat 60  
 tctcgttttg tttacttttt ataccocctg ttgacgtgct taagccattt tacttaagtc 120  
 gtttctcgct caacttaaaa gtaaaataaa tttccaccga acgtttgaat tgtattatcc 180  
 attaacttcg gttaaaataa attccgaccg ttcggtcacg ccgtaaccac gttggaaatc 240  
 aaaaagaggt aaaaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300  
 aaatcaatcg gacgttttct ctttgggatt tctcattctt aatcgaattg attaataact 360  
 aaagtgaac taaggctaan atcaactcgc ctagtcaagc tcgtccaca 409

<210> 20092  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<400> 20092

tatgcgcata tttccttaca aacgttctct tgcacttgat attctattaa ccgaaaaaaaa 60  
 tgcaccata tacaatcaag gcagcttcgt ttacctagat tatttacacg tacttccaag 120  
 gtgtatttgt tacttacatc acacacctcc ttggctaaat tcacacacat gcataactcaa 180  
 agcattttgg ggtacaaaaa attgcacatg tgcacatctt ggtatttcta atacctatac 240  
 atacacaaac ttcgatga atcttgacta tctacacaat aaggtgctac attttatgct 300  
 cttttcaagt ttttgctacc taaagccgca tgcaaattca agtatatttt cttttgctga 360  
 ctaaaattgt attcaaatta aaaggtatac attctctggg aatgtatctt ctttacataa 420  
 catgcaacat at 432

<210> 20093  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20093

agttttataa ttagcagtt ccagggacca tcgacgaacg ggcgatcaat acaaaaagaa 60  
 tactcaatcc atgggaaagg aatgaaaatc acacactntg cctcaactct gctaaagcaa 120  
 ttggatgtac agtgggtcaac attggcactc angacttcat tgaaggaagg gtatgtttgt 180  
 aggcccttcta gtttccaccc ataaaagcag aattattgtg ggcatgtaca ctgcagaacc 240  
 acaaaattta agatttaatt taattttataa atgaaatctg gtcagatttg attattttctc 300  
 gatcaaagta attctcaatc aagttaaccc ctttttttaa tgattccgaa tgctggtaaa 360  
 gtatctntat agcatgctac attntttttac agtcaaagcc tntctctatt cttnttggca 420  
 atgctacaca 430

<210> 20094  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20094

tgttgaagtc taaatagatg gtgactagac atttngtgat tcaaactcca tagaaggtat 60  
 atagcaacta ttttaattaaa aaacaaccta agaattcatt tagttcatat atttcgagga 120  
 gagctactgg tttgtttgga gtagtgcatt cagatgtgtg tggaccattt atggttcctt 180  
 ctcttggtgg gaacaatatt ttgtttcctt ttagatgaa tttagcagaa tgttgtggat 240  
 ctttcttatac aagtccaagt caaaaaaatt ttcaatcttt aagaatttta agttacttgt 300  
 tgaaaagcaa tctgaaaaaa catattaaga tacttatgac tgatgggtgga gttgagttga 360  
 gtataccttt aaagagtttg aagattattg caaaggatnt ggcattcaac atgaagtgat 420  
 attaatatg 429

<210> 20095  
 <211> 344  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20095

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aatggtgatt ttccaccatg gagatgcagc ggaagacaaa ggagaagatg tgagaggagg 120  
caccatccac tatggaataa gccatggaag aaagagcttc accaccaaga tgagccttgg 180  
ataagaagct cggagaggat gcttcaatgg aggaaaagaa agacggagag aaagagagag 240  
gggggagcac ganattgaac gaagatnaag ggagagaagt tgaactttga gttgtgtctc 300  
acaagactct cattcatcan agttacaaca agtgggtacac atgc 344

<210> 20096

<211> 432

<212> DNA

<213> Glycine max

<400> 20096

tctttaagag tttcatgcag tacaacctgc ccactcttca attatgcaaa ttgggggatg 60  
caacatctgt ggtggggccc atgagttagg taagtgcata tcccaacacg atgcatccaa 120  
agaattcaac tacatggcta atccatatca tcaagggttc catcaaggag gacctcttcg 180  
atacaatcag ggagaaactt tttcttaagg ccaagggttg agatcccatc ctgggaataa 240  
tttcaataaa gatagacaat ccatccatct caccttccaa ccaagggcct aatctttatg 300  
agaggaccac caagctagaa gacactctga ctcaatttat gcaagtttcc ttgtcaaadc 360  
acaagagcac ggagttagct atcaagaaat tggaggtgca agtggggcaa ctacctagc 420  
aactagatga ag 432

<210> 20097

<211> 264

<212> DNA

<213> Glycine max

<400> 20097

tacattgatg tttgtattta tgggaggagg gtgtatgtca tttttggttt aaaaagagtg 60  
tcccactggt aaaactaact ttccaaatgt ttgccttctc acgaaatggc cccgaggaag 120  
cttgctcaa agagggtcccc gaaagacaaa gcagccgaag gaactatttc cgctccggag 180

tatgataatc accgctttat gagtgtgtga caccaacagc gcttcgaggc catcaaggat 240  
ggtcgtttct ccgggagcga cgcg 264

<210> 20098  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20098

actcagcttg gcaataagta ctcccgcat tctctctgta tgcattgtat gtaggtctcg 60  
tcctttgtca cgggaagccg gaagggtccat atcaccttct taattgtaca catggggcac 120  
tgcgcccca aatgcacaag taagaagaga taattttccg ggctctcgtg tccgtaaaat 180  
gcattcatat catgcaccac ataagcatct cttcataaca tcataatgga catatcctgc 240  
atttgctcgt tatcatattc cagcctcaca ttttgcatga gtcattggcat catcatgcat 300  
atgcgttcaa caaacttttt gatctgcaaa attgcatacc atttgttttc atgtttgctc 360  
atccttgctg tntcctctac aaaacataaa caaaaaaggg ggaagcgtga aacttcacac 420  
tacattctt 429

<210> 20099  
<211> 236  
<212> DNA  
<213> Glycine max  
  
<400> 20099

tatctcttca aatcattttg aaaaggcacg aactacctat atatatgtgt gtctgatttc 60  
aaaaagcaag agagagatat tccaagagaa cttcattgtc aaatgctctc tcaacaactt 120  
ttgggcacac acttagcaat ctattaagag ttcattccaac aacttcaata gtaatatcct 180  
tcttttaaag agagaattct tcttcttctt attaaaagag attgattaac ggaccg 236

<210> 20100  
<211> 430  
<212> DNA  
<213> Glycine max  
  
<400> 20100



tgataaatct atatatggtt taaaacaagc ctcccgtttt tggtagctta agtttcatgg 60  
 gataatttct tcatttgggt ttgatgaaaa ccccatggat caatgcatat accacaaggt 120  
 cagtgggagt aaaatatgtt ttcttttttt atatgtagat gatattttac ttgtagccaa 180  
 tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240  
 tatgggtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgaggat 300  
 tttgggtcta tcacaggaaa cttatattaa caaaattcta gagagatttc agatgaaaga 360  
 ttgttcacca aatgttgctc tcattgtgaa gggtagatagg ttttaattga accaatgtcc 420  
 aaagaatgac 430

<210> 20101  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<400> 20101  
 gccc aaacca taacttcgat gatgttgac aactgcctat cttctatagt ggtttgaaac 60  
 ctcaaacc aa gatgggtcttg attcctcaac tagaggcaact atgatgtcca tgagtccaga 120  
 ggaagctatt ataatgattg actccgtagc agctagtgat tatcaaagtc atcacgatag 180  
 agtccaact caaataaaaag ttataatgga gttggacact tagaaaaaaa actcttgaca 240  
 caacaaattg aggccttaac aaagcagata tgccaacttc cacagcaata tcaccaaggt 300  
 ggaccacata aaaaaaatta agctcacga gttcaacaca ttttgagatg tgaattctgt 360  
 ggtggtaacc atcataatgg cactgttca gcacctagt atggacaaca ag 412

<210> 20102  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20102

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 atgacctttc aagcaataaa tacaatccgg gttggaggaa tcatccaaat ctaagatgga 120  
 caagtcctcc acaacaacaa cagcctgttg atcgaggcca taccogaatc aaataaacat 180  
 taaaaatgca gtatctagga agtgatccta ggtcgtctcc caatgagcaa tggatcaacca 240

aatgttcata acaaatagta ataaaatagt aacgaattgg ggggggggga ggatntatntt 300  
 taacaatatt gtttaaattt tgagttgatt aatctcatca cgacatagtt atctacctta 360  
 tttgaacatt tggttaataa tcatatatat atatatatat atatatatat atatatatat 420  
 atatatatat atg 433

<210> 20103  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20103

agcttttggg atgatctggg acctaaccat ggcagaggtc tccacagagg ccattgtctc 60  
 cctcgcccaa tattatgacc agcccgtgat gtgcttcacc tttgtggact tgcaattatc 120  
 acccacagag gaagacgttg aagaaatcct gagatgcct ctgggaggaa ggaaaccata 180  
 cctattctcg ggattctatc cctctttaac tagaatttcc aagatatgcc aaatctcaac 240  
 gcacgaatta agccacagaa aggaagtcga aaatggggtg gttggagtac caatgaaatg 300  
 ctaggaagtt aaagcaatac tcttggangt aaaggcgaat gggccccgtt catggacatc 360  
 ctgcgacttt tgatct 376

<210> 20104  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20104

nttcaattca ttctatgtac ccgtgggtgt ccacattttg tttcatgtat ttttattctc 60  
 attttcattt actttttata cccctttttg acgtgcttaa gccatttatt taagtcattt 120  
 ctgcgttaaa ctaaaaataa aataaatttt ccaccgatcg tttggattgt atcatctgtt 180  
 aattttgggtt aaaatgaatt ccgaccgttc ggtcgtgccg taaccacgtt ggaaatcaaa 240  
 aaagaggtaa aataataata taataataaa aaaatacctt ttagtaaagt aaagcgaaca 300  
 atcaatcgga cgttttctct ttgggatttc tcattcttaa ttgaattgac taataactaa 360  
 agtgaaatca aggctaaaat caaactcacc tagtcaagct cgtccacaat aatagggttt 420

tgaaagtcta tca

433

<210> 20105  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20105

agctttatat acaccaacag caaatTTTTT ttcaagcacc acaaactcta actcaaactc 60  
aaaagactca aacagaagag aagaagagaa tgcatatttg gtagatattc tatgtgcaaa 120  
cagccttatt taaagggaag ggaagagga tggtttcccc tattacgttt caactgttct 180  
gaaccttgaa aatatcagtc atgttcaatt ntttcttcat tatttctgca aatcctatac 240  
ctgaacccta gcaaagagta caaagccatg catgaacccc ctatactgaa cctaccctca 300  
tgcatgttgc actgcacggg ttgtatcttg ctagtctcac t 341

<210> 20106  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 20106

tccaacacac attggttgta tggacagggt tggtattgta ttgacaaaac accttttttg 60  
aggagttggg agaggtggat cgggtgaagg atgatccatg atttgcatta taggactttt 120  
gtggttaagggt tgcttaccct tgtgtattgc atgagcaatg gcaacaaatg aggtatcatt 180  
gttgttgta tccctcttga gataactctc aaagtcaaga gaagatcatg aagctcttca 240  
aagtcaatcg gtttttcatg agtgtgaaga gctgtagaaa cctccttgta ctcagcactt 300  
agcccattha aggtgtgaat gacaatgtct gcatcgtcca gtggatcatt ggtgatggct 360  
aattcatcag tcaaagatta tattccatgg agataatcac tcatggat 408

<210> 20107  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20107

agcttgatg gttaaagtct cacgattttc acgtgctcat gcaacaattg ttagtcgtgg 60  
ctatacaaga catcttgcca aacaaagtca ggtagccat aactcgcctg tgctttttct 120  
tccatgctat atgtagcaaa gtcattgatc ctgtcaagtt tgatgagttg gaaaatgagg 180  
ccgcaattat actgtgccag ttggagatgt ttttccccct gctttctttg acatcatgat 240  
tcaattgatt gtgcatttgg tctgagaaat caaatgttgt gatcctgttt atctacggtg 300  
gatgtaccg gttgagcgat acatanagat cttangaggg tatacaaaga atctatatcg 360  
tccagaagca tctattgttg agaggtagat tac 393

<210> 20108  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 20108  
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tgacatttat cactaaagat accaactttt gctaaagggc tatgcccttt cagcctaaaa 120  
aatgtagacg ctacatacca atgactgatg gaccgagtct ttaaacaaca aataagacaa 180  
aacatcaagg tatatgtgga caacgttggc ggtaagtctc gaagcatagt ccaacatgtg 240  
gcagatctgc aagaagtctt caaggaactt tacaagtatg acatgcgcct caaccctgaa 300  
aaatgtactt tcggggtagg cagaggcaag ttcctcgact tcatgatcac tcaccaaggg 360  
attgaagcca accctaacaa atgccttacc atactagaga tgcacagccc gaccaacatc 420  
caagaagtct agaa 434

<210> 20109  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20109  
agtttatagt cttcttgata gaggaataac aaagatccta atccactagt acctgttgat 60  
aaaatcaaac aaaacaatgt aattataatt ttaattaa aaagacataa gttttttcaa 120  
ctttattttt ttcatttatg tccttttata attgttctct tattttttaa tttacgtatc 180

cattaaataa aaaaaacgta gtaatcaaga actgaaaata gaaaatataa atttttaaat 240  
 aaactaaaaa taatgtgtag ataaacggat aaatcttcaa tttctaaata aatgggtgaa 300  
 aataagaatt atacctatnt aattttattag taaaaatcat tttaattaac ttaaaaataca 360  
 ttntgtcaac tataaataga gaatac 386

<210> 20110  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20110

aggcgcaatg atccgtggat tctcaggacc ttgaaactaa gcttggcatt gtataatttt 60  
 ctaaaagatt attttttatt ntttatttat tttttaattt gtagataaat aaaattatta 120  
 atttttaatt tatagtagta tattaaatac aaaagtagat ataataaatg tgaatattac 180  
 ttttgagtgt tcatttttat attatggata ttatttacca tctaattgat tttttgtgtt 240  
 tataattaat caattttaa atgttttcag taaaattaaa aaaattttaa tttgttaaaa 300  
 ttgtgtgatt tattttatcc tttcagagtt atttatttta acaatattgt ttaaattttg 360  
 agttgattaa tctcatcacg acatagtttt ctaccttatt tgaacatttg gttaataatt 420  
 atatatatat atatatatat atatatatat atatatatat atatatatat an 472

<210> 20111  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20111

agctttacat tatattntag taatgaccca ctaacctaga attaaaataa cttaatgcca 60  
 ttaacctagg gaattaaaaa aaaaaactta atggctgagt gtaactgaaa ttgtggcaac 120  
 caaaagtcac cccaacagc caacaagtca gccaccattt ggtctcccaa aagggtgagg 180  
 cctaggttgc caattgggcc cttattacaa cttgaactaa acctactaaa gccctttaag 240  
 ttgattaacc caaaacatat ttttggctcag ccaactntac aaggattggg ccattattta 300  
 gacaaactaa acactctaaa attgagacaa agtggtgcca tttagtcott ctccatttgn 360

<210> 20112  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 20112

tgtggattag gggttggttg tgcattgttg gcagattttg tagaagcttg tggttaaagg 60  
 gtctgttttg tctttctcat aatctttgaa ggagcttgta gtttaagggg ttgttttttc 120  
 tttttcacia tatttgaaga agcttgtgtt tgagggtgctt gtttccttta attcagctaa 180  
 ccaccttttg gttgaattcc ctaaaccaat aataagtgtc attttaagta attaacatat 240  
 aaaagatgtt aactaatgta aataaagatt agagacttac caagttactt tccttattag 300  
 ttgctgcac tttgtcattt ttcgtgtgtt gagggataag ttctttctta gcttgattga 360  
 ataacatgta ctatgttgtc attcctagtg actctgtgtt caagaactgt gttgttattg 420  
 tggcgc 425

<210> 20113  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20113

atctttgagc aaattcaggc gacaatatct ttttactcgt atgtctgatt gagtcccgtc 60  
 atataacgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgaatcctgt catatatcga gacgctcgaa attgaatgtt 180  
 gaacctctga gcgaattcaa acgacaataa ctttttactc agatgtctga tatagtctcg 240  
 taatatatcg agacgctcga aattgaatgt tgaagctctg agcaaattca aacgacaata 300  
 actttntact cggatgtctg attgagtcgc gtcatacatc gagacgctca aaattgaat 359

<210> 20114  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 20114

tcaacattca attttgagcg tctcgtaatt ttactgtatt caatcagaca tccgagtaaa 60  
aatttattgt cgtttgatt ggctcagaga ttcaacattc aatttcgagc gtctcgatat 120  
attacgggcc tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggttcagag 180  
cttcaacatt caatttcgag cgtctcgata tatgaccgga ctcaatcaga catccgagta 240  
aaaagttatt gtcgtttgaa ttgggtcaaa gcttcaacat tcaattttga gcgtctcgat 300  
atattacggg actcaatcag acatccgagt aaaaagttat tgcgtttga attgggtcag 360  
agattcaaca ttcaatntcg agcgtctcga tatattacgg gactcattca gacatccgag 420  
taaaaag 427

<210> 20115

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20115

agctttanga gatctgaaac tcaacttctt cttctctcat ggaagtatgc tgcgcttgga 60  
actttgtact aaataaggct gagaagaaga agcagtagaa tcctccctct gtgaacaccc 120  
aacatcagac ttgcgatggc tgtaataaac ccagtcttca tcattacaat ttactctcgc 180  
attggaatga aaaaatcccc cagcatttgc agaagccagt gttccataac tgaatgactt 240  
cctaacactg gaatctctct tccccccatc tgtttcacct tcctcagaat catcaagtga 300  
ctcagaatcc aaaggataat tgtattcacc atctctactc ctagagcacc ttncttctact 360

<210> 20116

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20116

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tagtataaac agaaaagatc gactttgatc agtatatgtc ctatggcaat ctattaaaca 120  
atttaattaa ttaattattc gacagaatac atatctgcaa gtttcaatat atattttatt 180

caacccaaaa cttatctata tcaggaatat gagtaattat gtttcaacac cataaatatt 240  
 taaagaaaaa agtaaattag ttcgatatag ctataactaa atcatagcag attatcaatc 300  
 aagttacatg tagtagtgta tcctattgaa atgaaactat ctttgagagt cttatgagct 360  
 aagcacgtta gaatntggaa ttagggatc agtgggcca tgcattccac cact 414

<210> 20117  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20117

agttttttct tgtttctctc ccatttgaa accaacattt ttcttgagca cttcattgag 60  
 aggtgctgcc aatgtgctaa aatccttcac aaattgtcta taaaaacttg ctaagccatg 120  
 aaaactcctc acctcgggtca cggacttang tgtaggccat tcttgaatag ccctaacctt 180  
 ctctcatca acttgactc cttttgaact cacaacaaaa ccaagaaaca caacatgggt 240  
 agtacaaaag atgcattttt caagattggc atacaattgt tcttctctaa gcacagtcaa 300  
 gacagattnt aaatgatcaa tatgcaaac aagtgaagtg ttatagataa gaatatcatc 360  
 aaagtacacc acaacgaact ttcctatgaa ctctctcaaa tatggttcat agtctcatg 419

<210> 20118  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <400> 20118

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 cagtgacaaa attatggtgg aaggcaattg tagtggtgtt gttcaacaca ttcttcacc 120  
 taagtacaaa gaacttggag ttgtcatgat accgtgttcc attggttaagg ttgctgtagg 180  
 aaaagctctc atagacttgg gagctagtat caacttaatg cctctttcca tgtgctggtg 240  
 acttgagag atagtataa tacatacacg catgaccctc tagttagctt attgctccat 300  
 cgcaagacca tatggagtga ttgaagatgt tttggggaag gtgaaacacc ttatattccc 360  
 agctaatttt gttgcgatag acatagaaga ggacgctgat attcctctca ttcttggtcc 420  
 ccattcatg t 431



<210> 20119  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20119

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 acgaattcaa ttgatatatg atagtgggtca ataaacatat atgatctcta aaagcttaca 120  
 tggtgacatt gactattcag tttataccta tataaattat ctaattctgg tgagggattg 180  
 atgttgaatt aaaaaaact aacggaagat gtaaaaaatg aaagttctct tagccaataa 240  
 aagaagtaat ccttaatagc atgtagaaat gtgggttttc tgtctccgac cgagtntgtt 300  
 ttcttctaatt tggatcagaa tattgtaaca aaaattgcat tttgtgcaca ttcatttata 360  
 atatgtaaat aaataaataa attgagtctt gtacacattt tcag 404

<210> 20120  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20120

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 gcttagatac agttccttgg tttttgatgt tgttttccaa tcagaattgg agtttcactt 120  
 tagaagtcca cataatatag atttgcatta aaggattctg tagattattg aaatgaaact 180  
 ccaattctaa ctgaaaacag caccaattgc acctaaagaa ctgtatgcaa gttttgtcca 240  
 aagaaatata ccttgaaacc gtgacacaac cgcagatggc aagaagcaaa cctcgtagaa 300  
 ggaatcatat ccaacaaaaa gacaaatcaa gtaaattgact ccacagacaa ccaccactgc 360  
 agaagtgaga aacggaatgc tttcccacca ttggctcatc ctagtaggaa acccggcctg 420  
 agtcaattaa 430

<210> 20121  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 20121

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ccattaattt tcagctttac cttctcctcc atttttgttt cttcatnttt ctccatgtat 120  
ctcctcacat gacttgtttt gaattttggt aacatgattt tttagaattt ccaccgatta 180  
aacttgctat agaagataga ttgatttttc tatgggtcaa atttcttgct cttgttcttg 240  
aaccacgaat tgtgttgagt ttaagttcct ttgagtcttg tcttggtat ttttgtgggt 300  
gaaacctaaa ccatanaatt cttacaaaaa cattaaagta gaagaaaaac ctcaaatat 360  
agagtgactt gtc 373

<210> 20122  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20122

tgaacctcat cgccactact agatgactcc acttntctatc tttctcctaa agacaacacc 60  
aagttaaaat caatcatcac aattacttgc catcaaagct actacctttg ccataaactt 120  
ttccccttag gtcataggga gcatatacat taatcacctt tgttggacaa gaggcctcaa 180  
taacttaaga gggggagaaa ttaagtttca aaatttccca ctaactaact tttaaccctt 240  
ttttaaatga taggctcgaa atgcagaaga agaagcaaca atcaatttaa taatgttctt 300  
taaacatgca agacaaaatt gattgcaata acataaatga gataagggaa gagagaaatg 360  
caaactcaat ttatattggt tcggccactt cacatgtcta tgtccagtcc tcaagcaacc 420  
cacttg 426

<210> 20123  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20123

agcttgtatg attatggggg acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60  
gcaattcaac tctccacatc cacagatcac acataaaccc accatcccca gttgccacc 120

ttcactgagc tcacgtactc ccacgtagcc cttatcttcg ttctcttcaa cacctgggtcc 180  
ccatcaatct ctccaagctt ccacaacatc caagcaattc aacatcccaa acatcatgaa 240  
ctatcaaaac caaggaaaac atggcagagg cagaaaactc tgcccaacac aaacaaatat 300  
cacagctttt ctacttaaaa aaccccagta acattctcct cgttccaatt cgtaaacgt 360  
tggatcgact canannattt actggaagtc tctagcacat aagtctacat t 411

<210> 20124  
<211> 433  
<212> DNA  
<213> Glycine max

<400> 20124

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tgaagacaaa atgaaggtat ggcaagagat ttggaatgtt tgttcatgat tcttcttgat 180  
gagtgatcat accaaatggg tgttgtatgt tatttttctt caggaaactg ttgttgaggg 240  
aactatacaa aagttatttg aaggacacca tatgaattac attgaatgca tcaatgtaga 300  
ctacaaatca actagaaagg agtcatttta tgggtacttcc ttatgcattt tgaattcaat 360  
tatatgttta gttcttcttt gttatgtaat tctaatttag tttttgcata tgcattgttag 420  
atcttcagct tga 433

<210> 20125  
<211> 305  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20125

agctttctga cctgagcatt tgaattgaga aaaagctcat tatcttcacg gcagaattcc 60  
ccaatagcac gtacatcaac aagggtccca gagtctctaa tttgaagaat gtgtatagtt 120  
tgatagcgaa gtgatacaat tgccaatagg tcatcataca agaagacccc catattatgg 180  
gttanattaa cgaagtcatt actgaagacc ttcttgtcca agatctctcc atcttccagt 240  
ctaatttagt aattaatacg tgagaaatgg gaacaataca taatctagag tgaacagagt 300

<210> 20126  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20126

tcaacaccaa atcctggaca gaatctttgt taagtattaa aggatcaatc ttattccata 60  
 aaccacaact ctgccaaacc tccaagctac aagcacaagt gatgaaagta ttgcatgcca 120  
 acaattcttc aaggcatctg cacatgaaaa agttttgtgg atttatttaa tcaccatgat 180  
 tacaagtttt tgaagaaaac ttcgatacac aagccagagg ataacgcagt gaaactcatg 240  
 taacaataat tagggggcat ttgttttaag atattgagca agattttaaa aaatgtgaac 300  
 ctaaaaatat cacattctga tgtttaatac aagttgtaaa aaataattaa tttttagaaa 360  
 tatattctaa tgaagaatat tcttaaaaaat aaaatttcat aacttanaac aagcatcctc 420  
 ttaacatatc at 432

<210> 20127  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20127

agctttgttt gacatacatg aagaaacaaa gaattttctca cgagtggact gtgctcagat 60  
 tctagtattc actttgtccc tttagatgat atcttcatcg ttaaggataa taataaatga 120  
 caagatttga ctggtaagaa ttgtgaagga taccattgtg gtggtaaatac attgaggtta 180  
 taacatgggt agctatagaa ctaacgaaga ttgagtttcc aatgaaggaa gtaaaatgga 240  
 gctcaaaata ggctcatcca tgtagagca ctttatggac tttgatctgg aggaagatag 300  
 gaataaagag gggttatgga agcangaggc agatcggaaa gcacgacaag gtgttcaatc 360  
 agagaagaaa catttctatt cccact 386

<210> 20128  
 <211> 429  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20128

tgtgcttcga ccaaccagc ctcaatttac gtgccattgt gtaagttctt gcttaaaagt 60  
gcaaccttca atgggaaatg taacaacaag ggtatttcta taacaattga tggcactttg 120  
gtggctcctt cagattatag ggtcaccgaa aactccggta actggttgga attcgagcgt 180  
gtcaacggag ttctgattca cggcggggcg cttgacggcc aaggcactgc cttgtgggat 240  
tgcaagaact cgggcaaagg aaactgcccc agcggagcca cggtatgtta aattaattaa 300  
tttaactctc atggattgaa cattattcgt tgacatgcac aatttcttgc tcccattatt 360  
attgttntga ttgatgttg gaggtggagt tgtggacttg gtgattactg agagtttctt 420  
agtggggga 429

<210> 20129

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20129

agcttgtact ctantgtgtg tgtgtgtgtg tgtgtgtgat atgtgcagta ngttaacagc 60  
ttctaaaagt tatgtaaact taggggcaag aggttaacat ttgtaaagga caagcccttc 120  
gtcctctcct ctccecaatt tcattcacta ctttataagt tgggtggaagg acctgctctc 180  
atcacaacag cagcagccca acagtgtaat taaaatagag acagcttgga aggtgggcag 240  
gggagataaa tttagatttt gggaggaccg atggttgga tctgaagcac tgctaattga 300  
gaaataccca angctgtacc aaatctcgtg tcaacanaat caaaccataa tgcnagtgat 360  
gagtcacttg agtagcggat gggaatggag 390

<210> 20130

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20130

ntgcaacaaa tagtggctaa tttgaggcg atccaattgt atgaggggac ccaacatcta 60

gaggcctgca tgcgtgggtt gctagttaca tgtattgctt gtcgctggag cagacccatc 120  
aactgcccta actcttttag actggtgatc cctaggctct tgaccttgac ttgatagaac 180  
ctcttttttaa gcgaagggtg ttgacttgat cccatgtttt actaaagtgt gcgaatcaaa 240  
acttcaacat ctatcatggg tgggatggat gaatgcatga agaaatgcat atgacacaaa 300  
tgcaatttat gaatacggga gcccgggaaa ttgtctcctt cttagatata acgtcttgng 360  
gtagcacagt gcccgcagta tgtatttaag aagggtgacac aaaccctcca ttg 413

<210> 20131  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20131

agcttttttg ttatagtcac tatttacgta tcaactatga tccatatatt ttcagcatta 60  
tctattatat tctcttaaaa aaatcccaaa taacaataac tacacattta ttcattataa 120  
aagtgaattg acgtgtttgt agaattaatt ttgaattaac atggctctat agaattgatt 180  
gtaagtaaac ataagtttgt agtatataat atgattattg tttggaaatt tgctacaaaa 240  
actgatattg tgggcaatta ctacaatgac ttgagttcaa gaggacacat tgaacaaata 300  
gcatgactaa taatacgact caagttagt tngattcaaa agct 344

<210> 20132  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 20132

tacccccact attaccaca accaccacc aaacctttct tgttaagaaa atgacatcgg 60  
cagaaatgca cttgagaaga gaaaggggcc tatgctttac ttgtgatgac aagttttccc 120  
ctagccatcg ttgtcctaata aagcaatatt ttgtccaca gtgggaagaa gaggatgaac 180  
ctgcattaca accagatcca ccagacgagg ttgagacagc tggtgaccct agtttgcaag 240  
atcatcattt gtcttataat gctttaaaag gctcatcaag tcttggaaca atgaagttac 300  
aatgatcaat gcatgtgatt gcgattgcag attctacgtc atcacgtgag cctatatatg 360

cccttatact tactatctac cgtctgaagt acctatagaa ccattctaata tg

412

<210> 20133  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20133

attctttgaa gataccgaga aagatagagc tgtttgtaata tttagtcctt tgttctgttt 60  
gatactccat aataaaatgg tatattacta ttattattat ttgttctaata aaatcattta 120  
ctattattat tttattttat ggcttgcgaa ataaaaagaa gataggaggt ttttctagag 180  
gtgaatgatg agaccattcc atgcctcttc aattaagtgt ttttcattga atctctatat 240  
ttttgtcggg tcaataacat atttttgtta tcagctgggtg atcttattga tgatgagact 300  
tggcctncaa ttgtcctaata cattcatcat gatattgccaa ataagatacc gattcatgct 360  
c 361

<210> 20134  
<211> 425  
<212> DNA  
<213> Glycine max

<400> 20134

tttcgattca ttctatgtac ccgtagtggt ccacattgtg tttcgtgcat ttttattctc 60  
gttttggtta ctttttatac cccctctta acgtgcttaa gccattttac ttaagtcatt 120  
tctcgcttaa cttaaaaata aaataaattt ccaccgaacg tttgaattgt attatccgtt 180  
aacttcggtt aaaataaatt ccgaccgttc ggtcgtaccg taaccacgtt ggaaatcaaa 240  
aaaggaggta aaaaataata taataataaa aaaaacatct tttagcaaaa taaagcggaa 300  
aatcaatcgg acgttttctc tttgggattt ctcatctta atcgaattga ttaataacga 360  
aagtgaact agggctaata tcaactcgcc tagtcaagct cgtccacaaa aataggcttt 420  
tgaag 425

<210> 20135  
<211> 338  
<212> DNA  
<213> Glycine max

<400> 20135

agttttattag ttgtgaaatt tgtaagactt aattcacccc cccccctct taagttattg 60

aggccacttg tccaacaagg acactatctt aatgagctta agcattatct cgatggtagg 120

tatatttctc cttgcgaaag agaccacttg ttgttgaaag attgaacttt cattttctgg 180

tttgattcaa taatatttga agatgatgac aacattgatg ctctgctctc caagccaatt 240

gttaaggagt ccatgtttac ttggctacaa gctaatagca tgttcaatga aggacaacat 300

ctaacatatg tgcaattcat aacaaagttt acatatgt 338

<210> 20136

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20136

cgttacagaa cttaggaaaa atcagaacaa gcttggtgta catcgttcgc gtgtacgata 60

tccactcgac aaggtttgaa gtagaggaga ccttcaatcc tataacgcaa cgtggcggac 120

aaaaatgggc agttaacttg aatggccatt attgtcaatg cggaaggat tctgcgcttc 180

actatccatg ttcacacatt attgcaactt gtggttacgt gagcatgaac tactaccaat 240

atatagatgt tgtttacacc aatgagcaca tggtanaagc atactccgca cagtgggtggc 300

ctcttgcgaa tgaaacggca attcctcctt ctgatgaggc atggacacta attcctgacc 360

caactacaat tcgtgcgata ggtcgggtcat aatcaacatg gataacgaat gagatggatt 420

ga 422

<210> 20137

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20137

atcttttctc taagcttctt atccaaggca ctctcttggg ggtgaaactt ctctttccat - 60

ggcttattct ttagtagatg gctcctcctt tcactcttc tctttatct tctgttacat 120

ctccatgatg aaaaatcacc attgaagggc ctctttgaag ctcaaagatc cagcctccat 180



agaaggttct caagaaagct tccatcagta aatgtagcca ttaacttatg cgtaattnta 240  
 atattttaaa acaataatat gttattttctt ccaacagggt aagagcatca ttagtgggag 300  
 tatgtactca atagcaatgg gagataaaca tactaaaaga accccacact tgtgtatcaa 360  
 caatgttatc acaatatcac ataaagc 387

<210> 20138  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20138

tgtaggatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcac 60  
 aacaagtttt ccacatccac aaatcgcgca taaatccacc atcccctgtt gcccacctcc 120  
 aactgagctc acgtactccc acgtagccca tatectcgtt tttctcaacc ccgtgtcccc 180  
 atcaatcctt ccaagcttcc ccaacatcca ggtaattcat catccaaatc atcacaaaact 240  
 aaaaaatcaa gcaaaatagg gcaaaggcag aaaactctgc cccaaactca aacaaaaatc 300  
 acagcttttt ctcaactaaa gaccccagta acatttcctt cgttccaatt tgtaaccgg 360  
 tggattggac tcgaaaatnt actggaagtc tctagtacat aagtctacat ttgt 414

<210> 20139  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20139

agctttttgct tttcactaac ataagctcat ttaatattca aggcttgta ggtttcagag 60  
 gcttaattcg gaactatgat ggataatgta attccctggg agttgatgtc ttgatggttt 120  
 atactttacg acacttcagt cgatgacact tcaacttaact ttcttgtag ttaaaatctt 180  
 tcaactaatca gaatccttcg taagtagtcc ttttcgatat attcataacc aactatgata 240  
 ccactcttag caccgactg ctttcaggat taatgactgt ccttgtaaac catcaaaaaga 300  
 ctcttttaac atactttntt ctcatcaca cactttccag agnactctnt atgagattac 360  
 ccatctcata aatatntcaa gacaaacaca cttaactgtg aaattctta 409

<210> 20140  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 20140

tgccatttgc attattagag aatctaccgt gagcttttct aaaaaaccac tatgaaaaat 60  
 aaattaaaca aataaaaaaa ccacaattaa aagagggtat gaataagata tgcataatatt 120  
 tcaatggatc ctaacaatgc acaaaaatga gagagataga aaatggaaaa atgatctcaa 180  
 ggtaacaaac aattcatgag cacttgatca caaaatgcaa agtggataag tagttaagtc 240  
 aaaattaaga atgctccatg gtgatagaaa tttttcaaac aacactcaac cctgtcaaat 300  
 gtgtatgggt ttgtgtttac acttaaacac cacatgtaat gatgtaagct ccatttgagc 360  
 ttgtatgcct acgatcttct tcatcaatgg attcattgac ttcttgaaag gtgaatgtgc 420  
 gcagaatgga 430

<210> 20141  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20141

agctttctctg agtattcctt aaagcttatt attgacaaaa ctttgcacat aagtttaata 60  
 ttgaactatt tttcaaata ctagacgaga gtccataggg cccttaata caacatagaga 120  
 tagattacct aagtggtaat tcgcctatga aggcccaagg tccatggccc aaaaagggtt 180  
 gtataaaaaa gttgagacct ctgggtaaag accatttctc attcttgcac ttactatcct 240  
 atttattgct tagagtcaaa acttgacttg ggcacaaag taccttttgt tggtagcccc 300  
 ctttggacca aacactanag caagacgaat agtgtaatga cccgcctcgt cgctacgata 360  
 tcacttatta taaaatgtga catcat 386

<210> 20142  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 20142

ntaccggtat ccccatTTTT agaaaatgga ggtgtttatt caagtcactg ctatgctcgc 60  
tggtggctta atccaaccta gccatagtct gttctcttct ccgatactcc tagttaagaa 120  
gaaagacgga acctggcatt aaagggcact aaaggaaatc acgggttaaag attgttttcc 180  
tatgccaacc attgatgaat tactcgacga tttggggccaa gcatcatggt ttttgaagct 240  
cgatttatgc caaggatttc atcagatacg tatgggtcaag acttacattc ataagacagc 300  
ttttcaaagc cactagggac attatgagtt taagggtcatg ccctttggcc tttataatgc 360  
cccttctact tctcaagcaa ccatgaatga tgcgctccaa ccatttctga ggaaatatgt 420

<210> 20143  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20143

tctagcttgt tcgaagatcc tcgagacgtc atacgagggg ccaatctttc ggaaaagact 60  
ttcaagaagt ttttgaagat ttctcttgat gaaaactata acctgcattc ttttgagtcc 120  
aaccattccc acttctgcac catgggggtt gttacctggt gggagaaata ttattcgacc 180  
cgttcagttg gagacactac tatcatgacg tgcagactcg agagtgggtn tataacaacca 240  
acgggtcgaga atatccgctc aaaccttcaa gctcgaggta ttaaattcct tttgactttc 300  
tanattgata tgtactattg gcttctctaa tattcttatt tcaagcaaaa caatcatgac 360  
gaagaanagt ggctgaacgt ctcgagct 388

<210> 20144  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 20144

ttcctttgag aatccacgaa gcattatttc tcttgtttac caaagttaat gtcgctgatt 60  
gaatggcagc aaaaagtgc aaaatagctg tactagagta ttgacatggg tattttttgc 120  
taatctttgc ttgtataatg aaccatgaag accacaggag gcaacctaga gtcagaagta 180

tggagcctac aatccatttc tetaacttgg cagctggaag cgtgcttgta attttgttg 240  
ctatgtgttg agattgtggg ttgataaggg gcattccttt ataaaggacc aataacaaag 300  
ctccaccaat gcacacaaaa gtccccatga ctttggtgt accactcttg ctttgcattg 360  
tcaccttctc taccctagaa aaatttcaag ccaaaggatc aaaagtattt ttcttgatt 420  
ccacaat 427

<210> 20145  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20145

agctttatgg agattcatgc atcaggggaa aatttcactt taaaagtggg tccaattgg 60  
cttctaatt ttcagctttt ccatttggat gtgagatcat ggcagttagg tccagcttt 120  
ccatcgtgga ttaagtcaca aaacaaactt gaatatttag acatgtctaa cgcagggatt 180  
attgattcta tccccacaca gatgtgggaa gcacttcctc aggttttgta tttaaactc 240  
tctcataatc acatccatgg tgagagtggg actacattaa agaatccaat atctatcccc 300  
gttattgatc taagctcana tcacttgtgt ggtaaatacc ctatctttca agtgatgtgt 360  
ctcagttaga tcttt 375

<210> 20146  
<211> 428  
<212> DNA  
<213> Glycine max

<400> 20146

tagagagatt cccgatctga gaggttactg ctccgtctgc aacagctctc aggtcaagat 60  
acaccaaatt tgagagattc ccaatctgag gaggaatctt ccccatgaat ccagtatgag 120  
agaggttgag gtgagtcaag gaagtcattg tccaaggaa agaaggaatt gacatacctt 180  
ctccaaggta ttcattggcg ctcaagtcca agtaattcaa atgctttaaa tcagccaaac 240  
aaggacttat ctctccacca aagctccatc tcctataagc ttcccaatca tcattgaaaa 300  
tagaatctga agagttgagg tgaagctgaa gaagatggga agtaaggttg tggcagagga 360  
ctccatacca gtggcaacag ttggtattat tatgattcca agaccaaagc ctattggaag 420

gatctatg

428

<210> 20147  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20147

agcttgtctg gttcttccat taattggagt cccaccatt gtttctgctc caactctttg 60  
ctctttgttg tctaggaaga gcacatcacc ctcaaaattt tgaatcctca acatgataaa 120  
aagactatat ttttaagcat ggtggtgcaa tgaaactgaa gaacaagagc aacccatgat 180  
ttanaatgag ctggagattg gaaaaatgga tatagaaatg agaaaaaac aaaatggtac 240  
cttcaaattt gaaggaagtg gtggtgtgga tgtgagtgat aatggtggcc agttctggtt 300  
tttggtgacc attttgaagc acaagcactt atgtagagaa gcatatgaga gagagagaga 360  
gagactatga ctaat 375

<210> 20148  
<211> 444  
<212> DNA  
<213> Glycine max

<400> 20148

cgaccttaga aactcagcta tgcattgaag ttggatcttt gccttcagtt ttacacgtg 60  
cctacaattg atatggtcat acatccatca aatatctcta attaaaatga aattatgcgg 120  
ttcattacag aaaataaaat atttactttt tatatgagaa aatcaaagtc tgatattatg 180  
aatacatata taataaacta gagtaacacc cgtgctatgt agaagtaggg gaagaaaaaa 240  
gtttcaaata gttgctccat acttttaatt aaagagagtg tagagtaata aaaaaaaat 300  
tggtgtgtag gccaatagca tttttatatt ttacagata tcaaccataa ataatgtat 360  
gtaattaatt aagctagcaa catttgtctg gttcaaagta gtcctgaaca ttaaattctt 420  
ctacaattat tggtgtacat ttat 444

<210> 20149  
<211> 292  
<212> DNA

<213> Glycine max

<400> 20149

tgagtatttt tcccttcact tttttgcttt ccattttata aatttgcac attcttgata 60  
aaatttgcag cttcatcatt taggccaagc actgtcaaat ctatggaatc ttatggacac 120  
atcatacagt gagcgacaat ctttttccca tggtaatcaa ttgttgcac tctcatctgc 180  
agaagtaaca gatccgggaa gtcttactct agaaatagtc cagcaggtag gtatctaact 240  
taaagatcc atagaaaata tcggaaactc aaatatttaa aaagtctaca ac 292

<210> 20150

<211> 429

<212> DNA

<213> Glycine max

<400> 20150

tatgtgaagt gaccaaata agaataaaaa tgagttgttc gatggtgcat gtggggggttt 60  
tgtgtgcct atagatgcag gaatcgtagt taaatgggtt ttaagctact gaagtgaact 120  
atgtggatat ggcttcttgt gcattagaaa tagccaagta aaattctgaa gaactactta 180  
ctaccttggg attgagattg aggggttgtt ctgttcccag cttccttctt ccttccgta 240  
tcaattattt tattcaactc tatcgacact tgctaaaatt ctttaagctta ggctgttgaa 300  
tttccttttg ttcaattata gaaagagaag gaaaatatat tgatttgact cctgagaaac 360  
aggggttgta ccgatcaag aaaaatgttt tggaatcgga tgggtgtttg ttgtgcctaa 420  
ttgtctata 429

<210> 20151

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20151

agtcttatct tatcatttag taaaaaaaaa aaaagttggg gacagtgtgt ttcttttatc 60  
tgtcaacttt ctcccgtttt ctcaattaaa atgggtttta tgatgacca cgttatggaa 120  
acaaattatt gttctcacat anaatttgta tccattcgct taatcaacaa catcatcgct 180  
aaagagctta aattgggtggg catcaagaac caatttcctt atagaagaga atgcgcccat 240



<210> 20154  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 20154

actcagcttc cttaggaacc ttgaaggata tatatatttc tttgcttggt tccttgatt 60  
 acaacatact ttcatttcca tttgatttgc accactccac ctttcacaca gtaggtaaaa 120  
 cctttggagt ccatggctcc catcgagatt acattcttct taagctatag aacatgaaaa 180  
 cattgggttaa agttataaca attccatcat gcattttgat ttgtaagaac ctatgccaac 240  
 taccttgcaa gcggcattgt atccattaga gcaataccac taaattattc tcataggtct 300  
 tgaactagct tttgtgtgga cacatatgat atgaacaacc tgagtcattc attatccaaa 360  
 atactgttgt tgttgatcaa caatcgagag taccaaatta gttttttgat gaggaattgt 420  
 tggatcaagt ggcctcag 438

<210> 20155  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20155

agcttgtctc atttagatcc aggaaagaca aggcggttga aggaaccagt tctgctcccg 60  
 aatatgacag ccatcatttt atgagcattg accaccagca acgcttcgaa gccatcaaag 120  
 gatggtcatt ccttcgggag agacatgtcc agctcangga cgacgagtat actgacttcc 180  
 aggaagagat agttcgccgg cgggtgggcat cgctggttac ccccatggcc aagttcgacc 240  
 cagacgtagt cctcgagttt tatgccaatg ctnggcctac agaggagggt gtgcgagata 300  
 tgcgttctt 309

<210> 20156  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20156



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 aaagttataa ctcttctaaa tggctcttctt gaccagacat gaagagtcta taaaagaaag 180  
 gctttgtttt gcatttcaat gatcaaaaac acttattcat acaatccttt acaagccttg 240  
 aatctctttg aacttcttat tcttccttgt accaaaagct ttctgaagtt ttctggtttt 300  
 ctaaacccttg aaaacttggtg ctattcatct ttccattctc ttctcccttt gccaaaaaga 360  
 attcgccaag gactaacgc ctgaatctnt ttgtgtctc tcttctccct ttccaaaag 420  
 aac 423

<210> 20157  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20157

atttttttat gtgtctagct actatataaa ataacaacat ctatatgggtt atttttttaa 60  
 aagaaaaata gtgaaaataa aaatatgaat cggtgaaatt aaagaaaaag tatagtaata 120  
 tggagaattg agttgatgat gatgacctgc atgagcatag aaccatgcag ggccgagtgc 180  
 ttgaatgtgc ctaaagtagc gtgcggtgat ggctccatt ggtaacaaaa tgccccacga 240  
 tatggcggtta acggtgccat ggatcactct caacgtcgtg agatccgtgt gctgtggagc 300  
 cgacgaaccc gacaatacgt canaggtaac aatggaagac agatcgggtg aagtagttgg 360  
 atgaatggtg ggagagtagc cctgaacgta 390

<210> 20158  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 20158

tgtgttggac cgtaatatat ctactcctaa gaaatttatc caaaataatt attattttta 60  
 ttttttttaa tgtaatatta attatttttt tcaacttatac ttttatatat ttaataatca 120  
 actataaaat ttaaaaataa attaatagat taagattaat ttataaaat tattattttt 180

ttcatttttt ttattatttt ttcttaattt atataaaata acttaggatg ataattattt 240  
taggatgaaa tatgattaaa caaaatctat ctacagtaaat gggttaacag tccgagcaag 300  
aataaaaaata ttaaaaaata tgaaaattat aaaaaacaaa atatagccaa aacctacgtg 360  
caagagagtg acatgggggtt gcaagataat aaatgactga tgtatcaatt atttgtttac 420  
ttaa 424

<210> 20159  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20159

agcttcctaaa atatccaaaa aattcaattc caattatcat gaaaccaccc taaaccaaga 60  
aaacagagta gaggcagaaa actctgcccc agactcattc aaattccaca gttttcccta 120  
ctcaaatacc ccagtaacat tctcttagtt ccgattcggtt aaccattgga tcaccttgaa 180  
acgtttactg gaggttccta gtacataaat ctacattntg accgttgagg tctactagaa 240  
aatatctaga acacgagata tactnacctt tccgtgactg gtgctgcaca agcatntttt 300  
ctgcacattt g 311

<210> 20160  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 20160

tgtaccagcc actaaacctt caatttcaag tgtaggtctt ttctaatttc ttgaccttcc 60  
tctacgaga gaccaacttc aactcagtat gttcctgtaa ataattataa ttaattagat 120  
aaattaaaat tgtatataaa atttaaatat gttataatta aagaaataac tacctctctt 180  
gccacactt tggctaccac atgattaaca tatgatgtca acactaatgt atcttggggc 240  
ccacctggaa aacctatga atcatcacct acattctttg taattggatc atgaggatcc 300  
tcatgagtct catcagcagc atcatcgata tgcccattat cctcgacaat agttgcagtt 360  
gttcattatc tacgtgtcga cactatcaat ctctgacgct g 401

<210> 20161  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<400> 20161

tatctcttca aatcattttg aaaaggcag aactacctat atatatgggg gtctgatttc 60  
 caaaagcaag agagagatat tcccagagaa cttcattgtc aaatgctctc tcaacaactt 120  
 ttgggcgaac acttgccaat ctattaagag ttcattccaag aacttcaa at gtaatatcct 180  
 tcttttaaag agagaattct tcttcttctt attaaaagag attgattaat ggaccgagag 240  
 tctcttaagt tgtaaggatt cctgaaca 268

<210> 20162  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 20162

tgataaatct atatatgggt taaaacaagc ctctgtctg tggtagctta agtttcatgg 60  
 gataatttct tcatttggtt ttgatgaaa ccccatggat caatgcatat accacaaggt 120  
 cagtgggagt aaaatatgtt tctttttttt atatgtagat gatattttac ttgtagccaa 180  
 tgatcaagtt ttgctacatg aggtgaaaca atttctctct aagaattttg aaatgaagga 240  
 tatgggtgat gcatcttatg tcacgacat taagattcat agagatagat ctgaggtat 300  
 tttgggtcta tcacaggaaa cttatattaa caaaattcta gagagatttc agatgaaaga 360  
 ttgttcacca aatgttgctc tcattgtgaa gggtagatagg ttttaattga accaatgtcc 420  
 aaagaatgac t 431

<210> 20163  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20163

agcttttatag cataaacgag attntgcaag aaattaaaat tgcaaaaaga gtttgatcct 60  
 attttaatta atgacatata atgtttattg tataatagaa cctaaaatgt taattactta 120

atttatgttt ggactggcgt tcatttggag tgttgttcat tatgtgcacg acagtgtgtg 180  
 ctctcatacg gatccaacgg tcgattgtaa aagacacttc caaaatactt tttgaaatct 240  
 gattttgaga acttcaagca aactcaatca tgtcccttatt agttaaaca agacacttat 300  
 taattaaata aaaagtaaag caatttcatt tattatatct aattccgtat taactactta 360  
 tcgnaagtac atcaccacaa cagacatgca catatgtaca cagtaattaa 410

<210> 20164  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20164

nttgcccaat atagctttga aattntctcc cccttgttca caaccaagtt acccttgggtg 60  
 agttttcact ttccagaacc atggtgggta tcataaccag catcatcaag tacctgcaca 120  
 gagatcaaat taaagcgaac atctagagca tgtttcactc ctctaagtag caactgtatt 180  
 cccatgttgg ttgcaaaca aacatcacca acaccaatca ccttggacac gtcatcatta 240  
 cccatcttca agactccaaa atcacctgga gtgtaagatg tgaagaactc cttcctgact 300  
 gtaacatgca atgtagtacc actatcaatt atccacatat tcttatcaga tacaagatta 360  
 agcgaatcag ggtcatggag aataacaaga tcatcactgg tagcagtagt cacacagtca 420  
 tcatcatgat 430

<210> 20165  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20165

agcttgtttc tacaaataaa gggcgagtct ggggtaagaa tgaatgaaaa aggtgaagat 60  
 tattctatgg atgaatactc tcctagaacc taagattttg aatcctagag aaaccatgaa 120  
 ttatttgcag cctaaccctt ttacaagcct agaaagtcct tcggattcat tttgtgttca 180  
 tggctgtatg atatgagaag aaatgcaaag gttggaactt gtgttggttg tttatgatgg 240  
 aataagccta aacacttgag cttgagtga acaatggctg tgagggtttg gttgatgatc 300

cttctcttgat ttttgtcatg cttactagct tatttcagct gtgattctaa tgcttatgct 360  
cctatctttg aaaattgcat gcttgtgaga agtaattgat ntaagcattc catgggtattc 420  
agttcata 428

<210> 20166  
<211> 426  
<212> DNA  
<213> Glycine max

<400> 20166

tggactcaaa gagaaactta gaatggctct agagtattag taaaaaaact ataaaataaa 60  
gactcaaaa acctctagct ttggcacttg ttttcacagt aattttcaat tgaaatttcg 120  
gaactaagat tggataaca taggcaccaa ttatagaata aattttgagc caaaacaaca 180  
agcgacttc cctttcactt ttttttctct ggatactgat ttttctgcca acttgtgtga 240  
tttttagtat tttttctgt tatccaaatc acttggttct tttttataa cttttttcca 300  
gatgtctagc aaattcagta aaactttcag ctcaaaattc gaagtaacca attctcagta 360  
atttttacaa gtttgtatgt ccaagctgcc agcaccaacg attttttttt aagcatggta 420  
tattga 426

<210> 20167  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20167

agcttcgtgc ttaaatatgt atggcaaaac ttcattactg ttgttcaaga catagaagtg 60  
agcttgtaac aaatcttcta cacttggagt gatcacctgc agtcctcttg aacccttacc 120  
accactctg tcatcatgcc gacactcang aagcccaaca actttagcct tctctaagta 180  
ttctgaacaa aattcaatgg cttcttctgc aatgtacctc tcaacaatag atgcttcggg 240  
acgatataga ttctttgtat acccttttaa gatcttcattg tatcgctcaa ccgggtacat 300  
ccaccgtaga taaacaggac cacaacattt gatttctctt gaccagatgc acatcaagtg 360  
aatcatgat 369

<210> 20168  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20168

tccattgttg agtttttggc tcccttttca tgctttatct cactccccac aagtaagtgc 60  
 aatttccctt gggtatttgg ctctccattg atgtgttttg gtgctttagt tgctcatttt 120  
 ttgcaaaatt cgtgaagcaa tttgcatcta aatccatgct tgttttgtgg agttgaggat 180  
 ttgaatgaga aggccttagg cctatgttgt attctgaagc aatggggcat gccacattgc 240  
 cccattctc ttgcaattta tgtccaaaca tgtgccatc aagtgtcgg tgaaatgccc 300  
 caatgatata tgaatatgat tttgcaaaat tgggatgggt gggctgtttt gtgtatgtag 360  
 agacagcata ggaaagtcga aatagatgcc caaatgcaat cccaagctta ngaacccaaa 420  
 c 421

<210> 20169  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20169

agctttgcga aaagcttgcc gctagagctg acccatcaac tgccctaact ccttaaggcc 60  
 ggtgacatct atgcccttaa tcttgacttg atagaatctt tttccgattt gatttgtccc 120  
 catgatttac ctaaaatggg gtgaatcaag gctcttatat gaatgatgca atgcacatgc 180  
 atggaacgaa aagaagaaaa acaagtggta gtttacatat acgagaccga aaaagatcca 240  
 tctttntaat actacgtctt angcattgct gcgccctaac gtatgcatta canagtgcg 300  
 cgttactcta aagagacaag atatcactag atatacagca caactataat ttatgtgcta 360

<210> 20170  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 20170

tgatgagta ctgggaaaga ttcaaaaaat tgtgtgctag ctgtcctcac caccagattt 60

ctgagcaact ctttcttcaa tttttctatg agggacttag caacatggag aagagtatga 120  
 ttgatgctgc tagtgggtgga gctcttggtg atatgacccc tgctgaggct aggaatttga 180  
 ttaagaagat ggattccaac tcccaacaat tcagtgaag aaatgatgct attgtcctta 240  
 gaggagtcca tgagggtggc acggattcat cttcatctac tgaaaataaa aagcttgagg 300  
 gaaaacttga tgccttggtt aatctagtaa cttagcttgc catgaatcag aaatctgcac 360  
 ctgttgcaag agtctgtggt ctatgttctt ctgcagatca ccatacagat ctttgcctt 420  
 ctttg 425

<210> 20171  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20171

agcttatgat aatgaagttg ttacaaattt tatcttgaat gaaactgtgc caaaaataga 60  
 tgtcatgaag ttgttacaat atataatgca cttaataacc ttgcaaataa acttcagata 120  
 atcttaatct ttggaaatgt attgatatta ggacaaatgg tcatcacata tgcaacaaac 180  
 atatagccat cctaattttac tcagttacat gaagctngtt atgttcaaaa tatcacacat 240  
 gcaaattgat gacaccttat agataatagc cttagaagtt gattatcatg actcanaatt 300  
 aagggtttca ccattacact atcatatcat ttaaccacaa cagagaattt aatacaaagt 360  
 cacactaaac ttgagttaca tcacatctac ttatggcact aagtataaac attgcatgaa 420  
 gtat 424

<210> 20172  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20172

gcatggtccn ttgaagacct cagtcatacc ngcgacacta taaaatactc acgcttgagg 60  
 aacaatgggc ctaccctaca cctgagatgn gtgattcaaa tgtgtccaat gccccacgga 120  
 tgtttttattg gaaattaaaa tccttcnaaa aaaacaatat ataaattcgc ccaataaggg 180

ccaaaatgaa gtgccacagg tgctctaaaa ggtgaaggag catttgtcag ccccaaaggg 240  
 gtgacaaaaa actcctatat ggccctgggg tgccgaaaag tggtttggtt aaattaagcc 300  
 ccttcattctt aaatatattg tgacctcta taggcgcact ttttaaaaca ccaggccctt 360  
 cctattattc atctactcct caatgggtggg gtggggggtta atccttaccg actcgcggtc 420  
 ttatttgacc attcccccaa cagcctgtct cctcctcttt taccacg 467

<210> 20173  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<400> 20173

agcttgtggt ttcaaccctt atcactgctt tatgtaaagc tagagaagtc acttctgatt 60  
 ctaggacact ggagagtctt caccgcgcca ttaatttggc atatgtgaag aagaactatt 120  
 ggaatcttga tgatctaata gtgactttca gagggcctat gaaggccaac gggaagaaat 180  
 cgaagactct cccatctttt gaggttcctt ctaccacatc agcaccaact tcttcttacc 240  
 taggtacttc tgctcatcac caacttcttt agattttctt ttacactaag atgctcatgc 300  
 catgatgcaa gcctacct 318

<210> 20174  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20174

ccgctntttg gagtagaaac atgggaccaa cacattttat tttttaagtc cgtatctagt 60  
 caagatctga gagaccatac aagtttccta gcggtttcta attatatggg ccattaagtc 120  
 tatcatatgc tgacaatagc cgagaagccc atgaatttct tcggggccgg agtaggtgtc 180  
 tgccattgcc ttggccttgg ctaataatcg aggaagttct tgactcccgt tcaaggtaag 240  
 agcaaaccgg tccatccaca tggttgcctc ttggtgtaaa gagtogatca cccttctct 300  
 agcctctttt ttgcgtata ctagggcata ctgcgtccgc accctatgct cgtgggcccgt 360  
 ggctagactt aactcttctt ggtacttggc aatgatagct agcatgttgg tctccgtctc 420



<210> 20175  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<400> 20175

catggcggtg caaagctgac agtctctgtc tggagagaga aagagatacg cggggaatgt 60  
 tgctcgcttt gaggatggag ttccgcgcga tctcggttct tcatgtgcgc acacgtggca 120  
 agttgccctt cccacgctg agattgaatt ctactgtgt acatgtatca tagggtcctt 180  
 cacaccttgc caa 193

<210> 20176  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20176

tgtacacgcg atacacgtat ggtatggtaa ttacgattat cgcgatatat aagagaantg 60  
 tgacgacaca canaccaca agaggagggc attgatgacc tcgatagaca cgcccgtan 120  
 nacaaanaan accccagcat gcatgaaaag tggcaaagca aacaaacact ttcttctaac 180  
 aggcatacacc agccgaagtg agagaaaaca aacacttgca atgaacattc acggcaatgg 240  
 gcaaaagcca gaacataatg ataacgactt acagggagca aaataagtga actgaccgct 300  
 gctgatgatt agaaatcggc atataagatg gataccagcg cgcaacaatt cactgcacgc 360  
 aatgaagcaa gaatacctag atgagacctc gaggagtggc cggaatagtc gaaacgccac 420  
 acaactaagg agctgagaga aaacgtgatg gacatgctaa gaaagacacc gaacatgaaa 480  
 tgaatcacat accatatacc agaaccacag acgaagcacc ataagactaa acacatacacc 540  
 aaaagagcga cgccgtgcta caagac 566

<210> 20177  
 <211> 170  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 20177

ggtgggttatg gctcgccaat ggaggtggtg gtgctgaagc gttgangagg taaaggctga 60  
aaggttgagg aacgagatat ctcatggata cacatattgc ttaggcaatg cctggacgtc 120  
cactgatgag acaggaatag taacggtgac agataggaac tgatctacgt 170

<210> 20178

<211> 504

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20178

ggaatcacag cagcaacaan tatgtaatag aacaaacaac cnccccaggg attgaacttg 60  
aacaccacca aanaccaact ccagaactca aagcttttat agacacacca aatcttttga 120  
gcaaagcagg atacaatcag gacattcctc ctctgaaac tcctatcgac cactcgctat 180  
cataagagga gaatcaccgc cttttcaatt tatgcaatct atactggggc ataccgata 240  
ccctatttta taagacagga ccaaacttcc gaagttatgc aagaaattcc tctcttagca 300  
ttactaggaa cacagtaata gaaattggcc atcacaaagc cttcgtagca accttagcat 360  
ggacaatacg tctatatgta caataaaaagc gcacactcgg aatcatagaa acaaaattac 420  
tcaactgtac aacaatacga ccgcagaatc agaagcgtca tacctaacac acgaagacct 480  
ctcctcaact gcatacaca accn 504

<210> 20179

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20179

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tcacatgaag cccaaaacac attatgtcat attatcagga ggttttaagg aatacctgga 120  
tccgtagaga gctngatcaa ctgcagcgg aatctaagag taggcacaga caatttggat 180  
taatgacctt gctcaaccaa gtcacattct tctcttatga gaccttcgct ttctcttcag 240  
atggtgagag gacgaattgc ttattgagtt tgtgtattgg ggaccataac catatcttat 300

gtggtaaacc tattatggta ccattatccc ttagtggacc acactgattc tcgctcatta 360  
agttcatatc cattcttctg gcagtcta g 391

<210> 20180  
<211> 434  
<212> DNA  
<213> Glycine max

<400> 20180  
cgtaggatta tggggtaccc atcacatgtg gtactaggtg tcggtcgggc gatggtgcac 60  
atcaagtttt ccacatccac aaagcgcgca taaaccacc atccctgtt gccacactcc 120  
aactgagctc acgtagccca tatcctcggt tctctcaaca ccgggtcccc atcaatcctc 180  
tcaagcttcc acaacatcca agcaaaaca cattcaaaca gcacaagcta tcacagccaa 240  
gcaaaacaga gcaaaggcag aaaactctgc cacaacacca accaaatcac agcttttctc 300  
acttaaagac cccagtaaca attcctacga tccaattcgt taaccgctgg atcgactcca 360  
aaattttact ggaagtatat agtacatgag cctacattgt gaccgttggg atctactagc 420  
aaacatccag aact 434

<210> 20181  
<211> 568  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20181

ccccctcac ccngcagagg atcggacaca gccacggccc cagcatacaa cccacnnc 60  
caacaacaga ggggtngnt tgatgccatg aacctcacgg cgaataaact cggcccgcg 120  
gaacctcaag agtccaccg caggcgcgca atctttttta caacgctcca tacacactcg 180  
agacatcgtc tcaaagatcc caacgggcac gtaacggaaa aagagcctct aaacttgcac 240  
acccaagtct gagaagagcc aacagtgaac aaacgctggg catccacact attgaggcag 300  
ccccacgtag cagctctag agagcctata taaaggctct ctccacaagc ttctctgtgg 360  
ctaccatgag aagccatctc aagaggactc actgacaaga tagaccctaa ctatccacac 420  
ccctctatca actaaaataa ctaccctaag aagtatgacc gatgacaaaa cgcacccaat 480  
aaccgaccat ccaacataat ccctatcagg cgcattccatt atacatgaaa ctgangcaca 540

cagccatctc acggtgcgcc ggaccgcc

568

<210> 20182  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 20182

tatagcaggt ccacatgctc gccgattggt tgtctgacat atacaatggc tcaaactaat 60  
acgaggatac acatactcca tcacaagtgc tgcacgtca atgtcaaata tgatgctcac 120  
aacatgtcgt tgttaacata gagataccag agtggcatta ccatgaactc ataaatgaca 180  
tggactgttc cagatgctgc atgatgaaca tctacactac tcatgcacat aactagtaaa 240  
acgtacataa tgtactcata ccataactat actagcaaata cctaatagcac ataacatcat 300  
atcgattgta agaatcgat aattgttctt gactgtcttg tgtctgaacg cactactatc 360  
tacacaaaag agctacagag accatc 386

<210> 20183  
<211> 575  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20183

gagatgcnnn tttaatnccc gtaaggancca ncngacacnt atataaaatc acncgcgtcg 60  
tacacctatg agctatattg tgtgtggaga agatttatcg ataatacaagc gttatatccc 120  
acctaggaac aatgaggcgt gtactaccat cccgctatct catcccttcc gcactatccg 180  
acctcgcata gtcacatgcg taggaaccat acacctatta aatgcgtacg atgtatgagg 240  
aactctccac atggatacca cgttctcatc atatacaaga ctatcatcat tgctnagaca 300  
ttaactatca ggctcatgac ctgtccagtt actcgataag gaccactact ctttgagaag 360  
acgaaatgcc taataccata atagatctcg accctcaaac cgagtgaggc gcggctccct 420  
acaccgaatt gttcaaacct aagagatggc tcgaacatct cactatcatt atctgactca 480  
gaaacagaca cagcaagac taacaagtat gctctattga tagctccaaa caaacatgtc 540  
tgaatcagct aatattgact gcgtctagta taacg 575

<210> 20184  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 20184

atgcttcttt cactaattta taactggaga atatatttat gtttaacaaa actagtccat 60  
 aagttatata aaagtttact aatttttgaa aatttattac aatgacttat tcaattataa 120  
 tagttgatta aaattgggaa ttgaagtagt gtaagataat aaaaatggac atatattttt 180  
 acataaattc tagagtaaaa tatgttttta gtccttaaaa aaatttacia atttgatttt 240  
 agtcattaaa caatcttatt tttgtccccc taatatagaa ataataatgt cacaatatat 300  
 actatcaaga tcgaagatag agtatttcca atttagagga gcaaatacag acaaaaagaat 360  
 ttagatgact ctaaatac 377

<210> 20185  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 20185

ccactatctg cagcgcaaga ctatatctcc atccacagac ggaactcaaa aacccaacg 60  
 gcggagaagc gcggaaatga attccagacc atgagtcгаа atgtaaagac aagccaacg 120  
 caaaaaaggc caacatcgta acaacatagg gacagatctg agcgtatgct ggaaaagaga 180  
 aagaacagag cgagggataa gacatccact acaaacataa actgaagaag ccc 233

<210> 20186  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20186

cgacccccgcc acacgcaaca gcgtaacggc ggactacgag aacaacaaga gaacttccn 60  
 ccncancnac aggagggtna nnttgaagcc gtngaacacc caaggcgaan acgagcacg 120  
 caccgggaga tccacnagag acgaccggca agcacgcaag cttagcatga aaggaggcgc 180  
 gaagcgccaa caacaagcta acctgaagaa caccgcacag gagcacagca caggaaaagg 240

cgcgaagcct gaaacactca ccgcaacgcg aagctagatg cacgcgaaac ctcgcatctc 300  
aagcaaagcg cagaatgcag aaagacaata ggtgaagcag aaccactacc caagaggcta 360  
gggaaagata cacagatgtc atagagccca agaagccttc ggcacagagg aacgcgacgg 420  
acgaccacac acaacctgaa gagaacaatg aggaaccgcg agacacacca ctangacgaa 480  
gaggcgacag acaatggaga cagccacatc gacgatagca acgcgaagga cgccacgccg 540  
accgcgcaga acccgaagac agaacaccaa accg 574

<210> 20187  
<211> 523  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20187

acgccccagc gagaaaagaa cgacggaagg aaaaacacac acccagagac ttgagccctg 60  
acccccnnaa naaaaacaac accgaaaaac caagaaacca ccgcaaccnt aatttcagac 120  
cagaaagggg aaccaggggc ggagcaaaaa ggaccacaaa acagagcagg ggaacacaga 180  
cacggcccac ggaacacaca cagccgcggg agacgaaccc acagaagaaa cgcacggcac 240  
aaacgccaca gccgccgcaa acagaaaggg ccgcatccaa atacaaacac ccgaacaaaa 300  
aacgcgaaag aaccgccgaa gagcaccaca gatcgagcca acgacaaaag cgcgggcaaa 360  
aacaaagccc aaaaaagcac ggccaacact cggcggacag acagaaggag cacgcgcaga 420  
caccgacagc gaccaccaat aagcagacca aggacacacg accctaagaa gggacaaaacg 480  
gcacaagaac ccgacgcacg aacacaacga gacaagcagg aat 523

<210> 20188  
<211> 449  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20188

attcagctcg gacccgggat cctctgagtc acctgcggct gcaatTTTTT tttgggtaga 60  
tgaagatgta aaggaggatg aggatgtaga agaggaagag aaatgtaggg atgagactca 120  
gaagcaactt gaagaggcaa gaaaagaaaa tcataaacta cataagaagc ttgatgttaa 180

gagaagaaaa agatcgattc tgctttgtgt cgtacgactg tgtttggtta tcacattatt 240  
 ctctgtgtt gtgcgcgtgt ggaactaagt agggagttcc ataatgtgag gatataccaa 300  
 gggaaggaag tctattggat tacgatttaa aaaaaaatta taaaaaaaat tgtgttattt 360  
 aatcagaatt tttaaagtgt ataaataacg tctgtgatat tcaattacaa tntttaagat 420  
 tttctacaga agacataaat ccgatgata 449

<210> 20189  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20189

tcgtgacgaa ctatttatgg aaaaacttca ttgtngttat ttagtatata caaatgagtt 60  
 tgttgcaatt tctctaacat gcaaccctcg tgaacccttt cctcccactc tctcatcatg 120  
 ctgagacttg ggaagcccaa aaggttccac cttttcaatg tacttttaaac aaaatttaat 180  
 agcttctttt gcaatgtacc tttcaacaat ggatgcttca agatggtata tattcttcgt 240  
 ataccctttt aagatcttca tttatcgctc aaccggacac atccatcgta aataaatagg 300  
 atcacacaat tgaacttccc ttaccagatg aacaattaag tgaaccatga tgtccaaaaa 360  
 tgaaggagga aaatacatct ccagctaaca taagataata gcagtctcat tttccaagtc 420  
 atctaacttt at 432

<210> 20190  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<400> 20190

ttgcttggtta aatatgtcta tcgcatttcc ctcggtgtgt aaaatgttac attggtctgc 60  
 tgaataattg caaaaagggg ctatgttatt tgtccagttt ttattttctg aatgtctttt 120  
 ggggttgata ataatgctta gaatttacgt ttggatcta attcaatccg aaagttaact 180  
 tgtgaggacc tatttttttg ctatatcgct agttaatata gaaatctcaa cacactcttc 240  
 ttatggttaga aataaatttg atcaagtact atgactatga gtattcaaga ccgaaacata 300

gaaatgacca atgcaattta gtaggaaaac ctcttatgcg tctgaagtta atttctaattg 360  
taatacaatg tttcaattca acattggaat accataattg at 402

<210> 20191  
<211> 425  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20191

ttcaacgccg gccacttcat atatcnttcc cattgctacc aagagtgtac aatgatcacg 60  
ttgcacatac aaccccatag tcggtatcac attagcaaca cgttcttccc ttgacaatga 120  
ggtcacaaca gtttcagcat tgggtctctc tggggtcaca cgtgcaccta attggtgtat 180  
atctatatct gcctcagttg ggggagagta ctgcatccc ctttgggata actccgtttt 240  
gatggcctcc ttcaactcct atttcattct ctctagactc cattttgttt tcttcttcca 300  
gctcattcct ccattcttcc tcaagggttc caattatctc agccacctgt tggtgggtga 360  
tggatgtgga cgagttgctg gaaccacatg atgcccttcc atattattga ctaattgtga 420  
cacta 425

<210> 20192  
<211> 374  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 20192

tctagcttgc ctcanagaga tccagganag acaaggcggt tgaaggaacc agttctgctc 60  
ccgaatatga cagccatcat tttaggagca ttgaccacca gcaacgcttc gaagccatca 120  
aaggatggtc attccttcgg gagagacatg tccagctcag ggacgacgag tatactgact 180  
tccaggaaga gatagttcgc cggcgggtggg catcgctggg taccctcatg gccaaagtgc 240  
accagacgt agtcctcgag ttttatgcca atgcttggcc tacagaggag ggtgtgagag 300  
atatgcgttc ttgggtgagg ggtcagtgga tccctttcga tgcggatgcc ctacagccagt 360  
tcttgggata ccct 374

<210> 20193



<211> 419  
 <212> DNA  
 <213> Glycine max

<400> 20193

ttgtgtaatc gattaccctt atttggtaat cgtttatcag tgactgtcta tgataaatca 60  
 aaagatgtaa ctcttcaaaa aggtttttga ctttttcaaa ttgggttttaa gtttttctaa 120  
 aagttataac tcttctaaat ggtcttcttg accagacatg aagagtctat aaaagaaagg 180  
 ctttgttttg catttcaatg atcaaaaaca cttattcata caatccttta caagccttga 240  
 atctctttga acttcttatt cttccttgta ccaaaagcta tctgaagttg tctgggtttc 300  
 taaaccttga aaacttgtgc tattcatctt ttcattctct tctccctttg ccaaaaagaa 360  
 ttcgccaagg actaaccgcc tgaatctctt ttgtgtctct cttctccctt ttccaaaag 419

<210> 20194  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20194

cgagaatggt tatatatcta gcacaagaat tgagccacat tctaattgat tggttctata 60  
 tattcatcac aacaatagaa cctgactcaa atatttnttt aacaaatctt cttaatatat 120  
 ctctagaagc tagagcagtg ataataaggg agatgcatca atacatgaca tcaagataga 180  
 tagcaaccgt gatgttgaat aattctacaa agttcactaa tgtgatagga cnttgattgt 240  
 gatccctact aanaaccaag cttaacanaa ggaaactttc tc 282

<210> 20195  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20195

tcaagccaag gccagactct tgtgcatcca gaggttctt tgaaaaaatg ccaaactccc 60  
 ttcaaaaaat ctaatttcaa gcttaaatag gtgggttggt ccgtgctcgc gtgcttagca 120  
 caaatcttaa tcgcttagcg cgcataagtg gatthttggct tagcgcactt ctctcgctta 180

gcggatgagc tgaaggggtg cacttgatga cctggagcgg tgcgctcagc gaacctgaca 240  
 gctcatcttc ttctggattc ttctcgcac ttagccactg agtgtcgcac ttaatgaatg 300  
 ctcgctaagc cagcagattg gcttagcgag aagggtgaaa caacactttt gccaatattg 360  
 ctaattaacc tgaaattgag agtaatttat tattaacac aaaaaataaa agtatanaat 420  
 ttctattacc 430

<210> 20196  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20196

tctgggagac caatgtcaag tggtcgcgat atgcgaagat gatgttccga gtactttgga 60  
 tttggtacga ccatgccctt ctgatttcca actgggaaat tggcgagtgg aagaacgccc 120  
 cggcatttac gcaacgagca taatgtaaac ctttacgggtt ttaaaagctc tatagttggg 180  
 cctaggcttt agagtttttc ctttggttaa ggctntgtgt cttttggttt tgaatntata 240  
 atacaaggat ctttcttcat ctgttctat gtctctacc attctcattc attngcatgt 300  
 ntacttcttt ntctgaaacg gcagatccga tgacgagntc cccgaaggta ctaatacctg 360  
 gg 362

<210> 20197  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 20197

taaagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgg cgatcagaat 60  
 tgccattcct tggattatag ggttgaacca agtcatgct tttaaaaaa ggttcatcaa 120  
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180  
 acatcactgc ttcgtctact gccaaacata ttaggatta ttgatgtcct tgttacttcc 240  
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
 tatcttgctg aaaaattcgc aatacttcaa ctgtacatca ttcgcatgca tccatgcttt 360  
 tcattgggtg cattgctcgt tgcattcttt ccttgaaaaa taaaataaaa tgaacttaat 420

cattgttata aaa

433

<210> 20198  
<211> 323  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20198

atcatcaaaa cattcagctt gatcctttgt ctacattatg ttgacaccag agccatcgcc 60  
aactaattac taatcagtac catgataagg attgttacag tgtagatttt tgcacaatag 120  
tccatgatcc agttattttg caacggaata aggtgtggtc ttggcatgat gagtactang 180  
tccacttgga cattntggat agccatgaag tttatagcaa accatggcag tgttcctag 240  
tttctcatag tattgacaaa ctaacatttt tgttatgcct cgaaatatgg atctgccata 300  
tggtgaagtg gtttgtaaac att 323

<210> 20199  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20199

tatgttaatg ggtcttaaga ggaaagctca ctaacattct taaacttact tattaacat 60  
gctcatgaaa actatttttt ctcaattaaa ataaatccct tttattttcc tacaacaata 120  
acccaaacta atattttatt atttatttat ttatttgcaa tatataatat attgtgagaa 180  
aattacatta gcactccctc aaatattgac ttattacaca gacaccccat tcataaaatt 240  
gcattttctt tgcacccctc tcgtgtcttt gtttaacttat gctacttaaa agtgaaaggt 300  
caaaattaac cttctcactt aaccagcact caacacacct tntgtttatt gtttatgaaa 360  
tttgaaaaca acaaatgtgc tctactaggg tttgatagcg agggggagca tggtgctcat 420  
gttggttg 427

<210> 20200  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 20200

agctttatac ttgagattga atagtttaca atctccgtcc agatctagaa gtcatagaca 60  
 accaacttaa gaagaaaaag aggaaaagga gtattcatat ggaacaagtc atggaagaag 120  
 gcgaagaggt gaaccaagaa tagataatca tttggggagc attaagatga caatccctac 180  
 atttcaaggc aaaaacaatc ctgagttgta tttagagtgg gagtgaaagg ttgaacatgt 240  
 gtttgattgc cataattatt ctgaggaaaa aaagatttaa ctagttgttg ttgaattcct 300  
 tgattatgct agtatttggg gggatcaact tgtgactaat angcacagaa atgggtgaaag 360  
 gcctattagt agatgggagg agatgaagac tgatcatg 397

<210> 20201  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 20201  
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 agctcacctc cttgagaagc ttccttaaga agattcgtaa agaagctaga gcttagctac 120  
 acatacctct ctaatagcta agctcacctc cttgagatga gaagctagag cttagctaca 180  
 caccacctat aatagctaag ctacccccca tgacaaaaaa catgaaaata aaaaaaaaaa 240  
 gtccttatta caaagacaac tcaaaatgcc ccgaaatata aggctaaaac cctatactac 300  
 tagaatggcc aaaatacaag gccttgacga aggaaaaacc tattctaata ttacaaaaga 360  
 taagcgggct catacttagc ccatgggctc gaaatctacc ctaaggctca tgagaaccct 420  
 a 421

<210> 20202  
 <211> 73  
 <212> DNA  
 <213> Glycine max

<400> 20202  
 tgacgaacac tatattaaag catgctatac cctgagagct acgcacctat gacacggacc 60  
 taagtgtgaag cca 73

<210> 20203  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<400> 20203

tggtggcact tgaaatatca tcagcagcag atgctacctt atcaaagaca aacaaaggta 60  
 gttaccgatt cttcttcatt gctatcattg attgttactt ttgtcttcat gacatctggt 120  
 cccactccaa atgaacaaga tttagtcgaa atatttatca tcccatgtta caagccttat 180  
 catatgctct atcttaagtt aaatgttttt ctaatgtggt ttaactaaaa aaacaaatga 240  
 gaatgaaaat cgtctaccga ttgtcttttt ataaaaacaa aaagaatgga atggtttggt 300  
 ctaataaata ttggagagac ataaaacatg aaaaaaacg taatttttaa gagaaacagt 360  
 gctctgcttc tcaacatgga tgaacaacat attatataat tagacaaatg c 411

<210> 20204  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20204

attttgtatc tacatagagt agaagataga tcattgatcc atcctccacc ttgttgtgat 60  
 aaacacaaca atcatagaga cttctcttga atccttggct ggtgataaag ctatcaaacc 120  
 tcatgtacca ttgccttggga gattgtttca aaccatacaa ggacctttgc agttgacaaa 180  
 catacctttc ttttacttga acttcaaacc cttcacgctg tttcattaga atattttctt 240  
 ccaatcttcc atggagaaaa gcagtcttga catcaagttg ttcaagttcc agatcttggt 300  
 ttgccactat agcaagcaga accctgatgg atgtatgcct aaccataaga gaaaaaatnt 360  
 cgttgaaatc tatntcttct ttctagctga atccctt 397

<210> 20205  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 20205

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tgtacataac tegtgaatg aaatccatgt ttaggttgat ttgtttcctg aatatttacc 120  
 taaatagatt gattctaatt ccataaactt atttactgta caattatcat tgaaatacag 180  
 cacacgttat tcagtccaat caatggagtg atttttgggt tttctagttc atagtcatag 240  
 cagacccatg cattagcgcc ccctaaccga catatactaa agggataaat tgatttgggc 300  
 cattttgttc ttttattaag tgaatggta gtgctagggt ggttaaaaac aaggctagggt 360  
 agggttaacc cttaggccaa aaccacatc gataactcta cataaaagga gacaatagat 420  
 ttgagaaata agaacaca 438

<210> 20206  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20206

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 aacaaagtat gggcttttagt tgaagcttca aaggatataa aaccaattgg ttgtaatga 120  
 gcttacaaga aaaggattgg agcaaattgg aagggtgaaa cctacaaagc tcatcttgtt 180  
 gccaaaggat atgtcaaaag taaggatatag attatgacaa aacttttctc ccgtggcaat 240  
 gctcanatca attcggattc tttttgctat agtagcatat tatgatcatg anatatgaaa 300  
 tggatatgga aaatggtttt acttaatggg gagctaaaat aatgtgtata tgacacaacc 360  
 tganggatca caccttgtct g 381

<210> 20207  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 20207

tcaggggtta attcaggatt atggtagcgc agaactatth gaggtatgta tgtaattctc 60  
 atagacttta atttttatgc ggtgtaaaaa attttacatt gtcaatcaat cagaaatcat 120  
 catcagtgtg atttttaaca tagttattgt aaaagtaaac aaatttgtca tattgtgatt 180  
 gaataacagt gtaaagagtg cataaactgt ttactcattc ttataattht acaactttat 240

ctgcatgagc taattatgta gcttgaaatt gggggcatga gaactataag atagtatact 300  
 aggagtggat ttataaattt ctttgattta aactataatt ttagagtcac tttgctatca 360  
 agttgttgta ctgcactgat taacttatga acttatggct gcattccatt gtttctgcaa 420  
 tgtgtgattt 430

<210> 20208  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 20208  
 ttctttttac atggagtctt acacaagttg caggaatgca acggactcaa cggtttctta 60  
 actgcagtaa ccaactactc agtggcttaa ctaaccgccc ctaggttcac acaaagtgtg 120  
 acctaactat acatgcatgc agtcacgtgc ctatacgtac tcctccaggt gccttggtct 180  
 cgtgatactc cttcatggct gtggctcgtg tgttgcaaga tgtggagctt cattcatgtt 240  
 gctgctgcta acatcatcca cccctgagaa aaccaccttg tgctcaagat ggtgggcatt 300  
 gcaaacatct gtccatttct cccatgtcga gt 332

<210> 20209  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 20209  
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 catgagagga caaagcacat agatgtgaaa ctacacttca tcatagatgt gattgaatct 120  
 gagaagggtga aggtggagaa gggttcaaca aaagaaaacc tggctgatat gttcaciaag 180  
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 agcagattgg tagaagtgca gccctaaatc acaaggtaga cacttgctga tttggagtca 300  
 aggtggagat ttgtgggtgtg tgactcaaaa tcacattggc tcaagtgaga aggtttttaa 360  
 gtgggtgtgt cataactgtg ttcagtcatt ataattgaat taggtttcac accaatgtat 420  
 agtc 424

<210> 20210

<211> 412  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20210

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 cctaattaga tgatttaa at gatgcatatt aatgtgtgca gtcctacaat gccacaacca 120  
 tgaatcatct attttactca ccaagcaact tagttcatga aaaacatgct tgctcattca 180  
 acatatagat gttacctatt ctcttacc aa tgtggataac ttaatcagat atggcttcac 240  
 ttataaggca tcaatttcta ttaaattcaa tcttgaaatc tttatcacac agttgactaa 300  
 tgctaagaag attatgctgt agtccatcca tatataacat attatntatc tngaatttgc 360  
 gttgattcct tataatntgct tctcccatct atctctcttt ggtaattgct ac 412

<210> 20211  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
  
 <400> 20211

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 cttccttaaa aattattacg gatgaaaata acgcaacaaa taatcaaaca tcaaacataa 180  
 ttactaataa tatatatata tatatatata tatatatata tatatatata tatcaagggtg 240  
 ttacaactct cccacccttt tagaaatttc gtgctcaaaa tttaccttac tcaaacaagg 300  
 atgggtgagc ttctcgcac tgactttcta attcccacgt ggcactctct cctgatgcac 360  
 ctccccatat caccttgacc aacggaatct ctttccctct taggtgtggt gtacgcctat 420  
 cctcgatcct 430

<210> 20212  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 20212



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aatgcaaaaa atgattaccc taaggctgca aactcgtaaa tcccagagggt attgcttttg 120  
aatgggggggt aaagatgttt ttgaatgcaa aagcggtccc ctccctcggt tttatatttt 180  
gggtgaagggt ttgctcgcg ggcagctcan ctgcccagg tgagctaacc tgccattgtt 240  
ttttttgttt tttttttacg ggaaacataa ccatggcccc ctctctatac acgttaacgt 300  
ttgcctactc gaacctactt aagttagaat taggcacga ttacttattt aaaacaaaca 360  
atagtaataa tcactgtgaa ttccaggata ctgggtgcct gcatgacgtc tctgttg 417

<210> 20213  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20213

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gaatgggttt aggcaaagac aacggcggtta taactagcct gataaatgcc aaaggaaatc 120  
gtgggaagta tgggttaggc tataagccca ctccaggcaga tataaagaga agcatcgcg 180  
gaaggaagag cggtagtcaa aactcgcggt tgagacaaga aggtgaagga agcccaccct 240  
gccacataag taggagctnt ataagcgcg gtctgggaga cgaagggtcaa gtgggtcgga 300  
tatacgaaga tgatgttccg agtacattgg atttggtacg accatgtcct cctgatttcc 360  
agctgggaaa ttggcaagtg aaggaacgct ccggcattta cgcaaagagc ataatgtaaa 420  
ccttta 426

<210> 20214  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 20214

tcttcttcgt gcttaaatat gtatggcaaa acttcattac tgttggtcaa gacatagaag 60  
tgagcttgta acaaattctt tacacttga gtgatcacct gcagtcctct tgaaccctta 120  
ccaccactc tgtcatcatg ccgacactca ggaagcccaa caactttagc cttctctaag 180  
tattctgaac aaaattcaat ggcttcttct gcaatgtacc tctcaacaat agatgttcc 240

ggacgatata gattctttgt ataccctttt aagatcttca tgtatcgctc aaccgggtac 300  
atccaccgta gataacagga ccacaacatt tgatttctct gacagatgca catcaagtga 360  
atcatgat 368

<210> 20215  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20215

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aatttcctt gggtatttgg ctctccattg atgtgttttg gtgctttagt tgctcatttt 120  
ttgcaaaatt cgtgaagcaa ttgcatcta aatccatgct tgttttgtgg agttgaggat 180  
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ccccattctc ttgcaattta tgtccaaaca tgtgcccac aagtgcctcg tgaaatgccc 300  
caatgatata tgaatatgat ttgcaaaat tgggatgggt gggctgtttt gtgtatgtag 360  
agacagcata ggaaagtcga aatagatgcc caaatgcaat cccaagctta ggaacccaaa 420

<210> 20216  
<211> 327  
<212> DNA  
<213> Glycine max

<400> 20216

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aagaaaaaaa aaaggatagc acgtacagat tagtttatta gacattgtaa aacaaaagct 180  
ataaaagaaa acactttaag tatcaaaaag ggacacatta agtatcaaaa agggacaaaag 240  
atgaaggaaa cacttaggtt ttaaaacttt gaagttgttt gtagcctaca aaaatgcatt 300  
gatttgataa gagtggtcaa gttatta 327

<210> 20217  
<211> 431  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20217

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acatttacac aatgctacat tgtaacaagt cttacaggaa ttttttcagc aagaagcttt 180  
cgtattccat gagctctaga ctccaccttt acatccactc ctgaaacata ttcaggataa 240  
agcaccagaa gctccatgat atttgtaaga tacggattta aaaatccacc aagcttgtcc 300  
acaactgcct ccaaagtgat gagaacataa aaatgggatt catttgaggc tgataaaaca 360  
tcaatggttt cgggtttcat atcagccaat actcgacgag atgacttcat cacattgtcc 420  
ataatcttgg g 431

<210> 20218

<211> 362

<212> DNA

<213> Glycine max

<400> 20218

tctgaagaga gtgacgaggc tcaagcccta taggcatatc ttgtaagagc ctgtgttgtc 60  
tgcgagaatt tcacgtccat atgcacatac aaactctgct gaagagtatg atgaactacc 120  
gtatgtcaat atgtccaccg atgaaccctt ggaatgagac accatcaagg gccgtaggga 180  
acaacacgac ctaagcgaat tttcgggggg ctttatcagg caacaatagt gagctcaagc 240  
tcccaagagg tgaaaggaat catcacgggt caaaggcatg atcttgatcg acgagctgca 300  
ggtttgcctt aggtcgaata gacatttgtc ccaacaccta agcgagattg aagggaatat 360  
gt 362

<210> 20219

<211> 308

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 20219

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 agccgtaacc cgaaatttTgt atggaccaaa actgctatgc ccaaaataca ataaatgata 180  
 gggaaaatgc attntttttta tatatatata atgacattgg ggccaactaa cttctttttt 240  
 atgaattaat tttattaaaa aatgatgtgg attgaccact ttattaatac tcannatgaa 300  
 acattact 308

<210> 20220  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 20220

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 cattttcaag gtccaacgcc ttaaaatgat cacctcttaa agtaaaaaag aatcacttga 120  
 taagaaagaa ctacgtaggT ctgatttcct catcgcaatt gaggaatacg taggagcaaa 180  
 gggaaacacc cttgtcaacc acaaaaagag aaaaatataa aaagggtata aaagatataa 240  
 agacataaaa agggaacata aaaatcaaag tcatgtttgc acattcgatc aaaggctgcc 300  
 gtcccttggg acggacgtgt ggggtgctaa taccttcccc gtgcgtaaT acaactcccg 360  
 aacctttcac ttaaaagtTc gtagatcgcg tcttttccgg tttttccgac gttttcctca 420  
 cataaacgTt 430

<210> 20221  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 20221

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 acccatgtTg tgactaccat tcctatatgg ccaagtttcc caccaacca acaatgtcat 180  
 tactcagcca ataacaaccc atctccttac ccaccacca gttatccaca aaggccatcc 240  
 ctaaataaaa ctacaaaacc cacctaccac acgaccaatg ctaaacacca ctnttagcac 300  
 gaaccgaagc accaaccaac agggaaTTTT gcagcanaca gcctgtagaa tTcacctcac 360

attctgtgt catatgctaa atgta

386

<210> 20222  
<211> 431  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20222

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gaagtttct caaagaagct tctcaaggaa gtttctcaa gaagtttct caaggaagct  
120  
acctagtcta taatagaag catgtgtaac actgttgtta acttggatga atgaagctct  
180  
tatgagacac actcaagat tctactctc cccctcttt attcctcaa ttctgtgtct  
240  
ccccctct ctttctctc ctcttcttt tctccattg aagcatctt ccaagcttct  
300  
taccaggc tcatcctgt ggtgaagctc ctcttccat tgcctatcc ctatgtgatg  
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gagcctcccc tctcctctc tcttgcct tccgtgcat cntccatgt gaaatgacc  
420  
attgaaggac c  
431

<210> 20223  
<211> 361  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20223

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120  
catgactat tcagtttata cctatatata ttatctaat ctgttgaggg attgatgtg  
180  
aatcaacaaa aactaacgga agatgtaaaa aatgaagtc tcttagccaa aacgaagta  
240  
tcctatagc atgtagaat gtgggttct gctccgaccg agttgtttc ttctaattg  
300  
tcaaatatc taacaaatc gcatttgc cancatatat atatgaaaa aataataaat  
360  
t  
361

<210> 20224  
<211> 432

<212> DNA  
<213> Glycine max  
<400> 20224

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120 tagaagtcca cataatatag attgcatla aagattctg tagattatg aatgaact  
180 ccaattctaa ctgaaacag caccaattgc acctaaagaa ctgtatgcaa gttttgcca  
240 aagaatatata ccttgaaacc gtgacacaa cgcagatggc aagaagcaaa cctcgtagaa  
300 ggaatcatat ccaaccaaaa gacaatacaa gtaattgact ccaagacaa ccaacctgc  
360 agaagtgaga aacggaatgc ttccacca ttggtcact ctagtagaa accggcctg  
420 agtcaattaa gc  
432

<210> 20225  
<211> 341  
<212> DNA  
<213> Glycine max  
<400> 20225

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120 taggtttctg ctttaaatc cgtcggtagc taggtggggg gtaaacgaa catcctgtg  
180 cgaagtata cgatbaacc gcacttgctg ctcttgctt gattctggat ttacatgtt  
240 tctaattttt atttatcga ggttaattgc cgttttagaa ctgattataa cgttcaaac  
300 ataataaac ggttcggaat tagtccgca atattttgg t  
341

<210> 20226  
<211> 433  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20226

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120

gtctctacc ataagctaag caggaatla gylaagataa aaaaataga aatatacat 180  
aatctaca cccccca agtggagca tataatcgt atgcccaag ctggagcat 240  
ataactga tcttagcct cctaagac ttagcaaaa tatcagctg ctgacatla 300  
aatlaatga actcagtagc aattctctg gacagtagc tctctcggat aaagtgcag 360  
tcaatctca tgtgcttgt cctctatgg aagactggat ttgaagcaat gtgatataga 420  
gcctgatat cac 433

<210> 20227  
<211> 346  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20227

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caacaagg agaaagagg tgtcttcaa acccgagat tgggttggg tgcacatgag 120  
aaaagaaagg ttccggaac aaaggaaac aagcttcaa ccaaggggag atggacat 180  
tcaagtgtct gaagaatca atgacaagc ttacaagtt gagctgccg gtgagtataa 240  
tgttagttcc acctcaatg tctctgatt atctctnnt gatgcagat ggagaaatccg 300  
atgaggaca aatcctctc aagagggaga gaatgatgan gacatg 346

<210> 20228  
<211> 491  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20228

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ccaagagct ttgtaactag agaanccgc acaaaaaaac ccgctgggac aaaaagggg 120  
acgaaccga actaatctc ccaacgaac agcggcgggg ggaagggcga ccaactata 180  
cagagacccc cgcaaaagaa aaagagacac ccgggggaaa aaaaacacag cgagggcgac 240  
accccaaggc ccaagggagg acctcgagaa ccagaggga ccccccgga accgaacaag 300  
ggaaaaaaa aaacggcggg aacagagacc gaccggaaa ggaacggcga caaaacaag 360





<210>	20232	417	DNA	<212>	<213>	Glycine max	<223>	unsure at all n locations	<400>	20231																																					
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<210>	20231	408	DNA	<212>	<213>	Glycine max	<223>	unsure at all n locations	<400>	20231																																					
agcttctct	agcagctct	atgagaagct	aacgttttaa	ctactaacac	ccttnaat	60																																									

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aactaaacc accctctga aataattac gataaaaat aacacaacaa atataatcaa 120  
acataagca taattactaa atatatatag atatatatat atcagggtgt tacactaagc 180  
gcgagatcag tgtgttaagt gcagttagtg tcttcaacca ggtcagcac acgactagtg 240  
ctaagctcaa atccactcac tgcgctaag cgcgaggtg gcgctaagcg caacatcgtg 300  
aatcaagc ctattaaag tctgtctgt gcaaatlan ggtacaagt gtataataac 360  
cagtgcaaa aattcacag cacaccac 388

<210> 20234 403 DNA  
<211> 403  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20234

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tcgtgtgtt caagtaatgg atataatcc tgcctatag tgcctctgg gaagaccgtta 180  
gattcatgcc ctgnagtagg tccctcaac gctcacag aattgaagt tcgagtgagg 240  
tggaacttta gtgtagtgt cgggtgaaga ggaatgta gtgagtgcc ctccctcgcg 300  
accatacgtta gaagcgtgg aagaatcat ggaacgact tccaacct ttgaggtgt 360  
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<210> 20235 321 DNA  
<211> 321  
<212> DNA  
<213> Glycine max  
<400> 20235

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caatatcac ccaagtgga agatttga gaaatcctgt gatgccctct ggaggaag 180  
aaaccatacc tccctcggg attctatac tcttagcta caattccaa gatagtccga 240  
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aggaatgct tggaaataa a 321

<210> 20236  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
 <400> 20236

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 ttctcgct aacctaaaa taaataaat ttccaccga tctgttgat tgtatcatct 180  
 gtaatttg gtaaaatga atccgaccg ttcggtcgtg ccgaaaccac gttggaatc 240  
 aaaaagag taaaataata atataataat aaaaaatat ctttagtaa agtaagcga 300  
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 taaagtga tcaatgctaa gatcaactc acctagtcaa gctc 404

<210> 20237  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <400> 20237

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 ttatggaat tggccaagg ggcacaaccg tgaacctga ttgcatacaa agtaccg 120  
 cgcgtgctc aaccacagt tccacggacc ttgtccata gttcccttc gccattagaa 180  
 ctagtatat catcaaaaat taatcaaca tttaaatata ttttagttc agaaatag 240  
 ttgttcaat tcttaataa aagtattt ttaattcta caattgatca atatatatt 300  
 ttagccctt catcagacac ttgtgtaaa aggtctgta atatttatag cttaattctt 360  
 aatactgtc tag 373

<210> 20238  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20238

60 tcanagaata aagaacaaga catggtctaa agtggttctc atgataaga ttatgcygtc  
 120 tgcgaaga caaatlaaat tacacaact aataaataat taacctcca ttctaatac  
 180 gaacaattt tcatcttta gcttggcca ctgcttgg caggttaag gttgtgcta  
 240 acataattt tacatagat agtatttca taccatctgg tgcattcgtc ataaataat  
 300 aatgcctta ttatacatga ataataataa taataataa taagagaata taatttata  
 360 aatlaattt tatatcata ttaatttat tataaattt gttgtccaat attaattat  
 420 taagaagatat aagcaaaaaa ataataata ttacactgaa aatlaaat ataattat  
 ntgaataa 429

<210> 20239  
 <211> 282  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20239  
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 120 ttgtgagtc ttnttttag tttttttt actctactc agagccatc taagttctc  
 180 tttaagttc agctgcttc tatgtcctt tcatgctt aatgttga taatccctga  
 240 aaatgtct tgttaaac ccatgtgtt agctnlaat taatnttt gttcttgg  
 282 tatgtctgt cttttgtt tctgttgg gattgtcat at

<210> 20240  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20240

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 180 tatgctgaa acaaatga ttgtcttga atgttgaag agcatgtatg aaatgtatga  
 240 aactttgga gaatttta aaatcgtga aaatttca gaaatgtt tcttagaca  
 300 tgaagcttt ctttcaag aaaaacaat gtgtgtgctt aatgttcta ctacaattc

gctgtttgt gaagcagatg aagaggtt atggggcat ttgggtcc aaagactc	360
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tgaaatgtc	430
<210>	20241
<211>	243
<212>	DNA
<213>	Glycine max
<400>	20241
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tcggaagcgc ctggctaa atttctca cggaaacaat ttcccaagc caatcgaaa	180
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aaa	243
<210>	20242
<211>	363
<212>	DNA
<213>	Glycine max
<400>	20242
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gttcaagatt gaatcatcaa cactccatgg ctacatgga aatttgatt caagatcaa	180
caatlaagtt tcaagactca agttccatga atcaatatca agatccaaga atcaagagaa	240
gactaatcg gcatatgtat tagaaagttc ttcatgaaac tgatagcac atgaatttt	300
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cga	363
<210>	20243
<211>	414
<212>	DNA
<213>	Glycine max
<400>	20243

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 300 ttatggaag ctcaactct ctgttgatc ttcttgag gtaactgatg taatatctt  
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 414 ccttaccct gatcatatag atgcatgctt tgtagggtca ttcaacagt aaag

<210> 20244  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20244

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 360 atctcccct ttttgatgat gaacaatac taaatcaag ataacgata caccattgat  
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<210> 20245  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20245

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<210> 20246  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20246

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aatatgtttt ctacatcgtt tatlatagac ttccaacac ggcctttcag ccgatgttga 180  
aagtaaccgac gttgatagta ttatcgttaa catcggcctt tgagaaaccg atgttaacgt 240  
aaaattacca acatcgttta tataataaac cgatgttgc atatagaatt acaaccagac 300  
aatgtatat atgttgaaa gttaacatcg gttccttactg aaaaaccgatg ttgtatcaa 360  
gaanttttct ttatatatg tctgtgtaga caaccgatgt taacgaatgt gtgact 416

<210> 20247  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20247

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cgttttacc gagcagctt catgtagctt tctctagaag ctccattaa aggccttctc 180  
cagaagcttc attaagagc ttatagcaca gtccagacat ctcttaaaag atcccaacgg 240  
tcatatcatg gacaagtgtc ttgtgaggt gcagaccana ttctgagaag atccaacggt 300  
taacgaacgc tgggcatcg tttaacagag gcagcttcat gtacgttct ctagaagctt 360  
catca 365

<210> 20248  
<211> 416  
<212> DNA  
<213> Glycine max

<400> 20248

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180 ttgaaaaact ttgttgacc atcgccgac cgcaacctag taccacatgt gatgggtacc  
240 ccatattct acaagctga gatgaggag ttgagaagg tgaacttc tgcattat  
300 cgttgaccac agagtgttac ctggagatat gtcggggga tcaggagacc ttgggagct  
360 caggtgggt gctatggcc aaaaaccagc ttgaacctc ccaaccacac ccgggcatag  
416 ccagtcatg agaacctgt atgtacctaa gcaggcgagc tcttgcatc aacaga

<210> 20249  
<211> 372  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20249

60 agcttttgg tttaaataa aaagggtt ctctttcta ttatttat taagcaatgc  
120 cacatgtctc cattgagtg gagcaaaaag ggcctactt cccttttga ctgtgacca  
180 tactcagta caaagttag aaaaactga ccttgaaat gctaaatcc tgcctcgtt  
240 tgcattgtgt ttctcgtgt ccagttctc gtgttctct ggtccgtca ggtcagttt  
300 tcgaaagtac gcaatatata taccagaaag ctcaagataa aaccgccgagc gtgttcaga  
360 ggttggttc gttaatnt agtcgcagc cacaaagatg atttaact aatlaataa  
gaatlaacc at

<210> 20250  
<211> 414  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20250

60 ntgtgattt agcttcgcc gggaagaaga tcttcttg tctgaaaga ggaatttg  
120 atcacctac ttgtatagt gagaatacta gggcaatga agaggttag aatgaaggag  
180 aaacccatgt tgtgactgcc attcctatcc gcccaagttt cccaaccaac caacaatgtc



attactcaac caataccaac ccttcctt acccaccacc cagttatcca caaaggccat 240  
ccttaataca accaacaac ccaactacca caaaaaaatg cccaacacc acccttagcg 300  
aaaaaccaaa aggaatttg cagcaaaaag cctgcaggat tcaacccaaa ttccgattgc 360  
atattgctaac ttgatcccat atctactga taattcaatg gtatccataa cccc 414

<210> 20251  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20251

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atctctagag tccatctctg ctcacatgag gaggatggag ctccagatgc accgatataat 180  
gcaagcatgtg atcgactagc aggcagccaa tcatatgggt caggtgcagc taataagag 240  
cttttaacga tacacctgac atcaacagag ccaagatata atcccttcc cgtggcctac 300  
cccccaacag ttcaaggcca cagttgcatg gccctggagat aggcccgat ntcaaacag 360  
gccaggactc gcatggacc ccaagataa agatggagca caggatgatg at 412

<210> 20252  
<211> 351  
<212> DNA  
<213> Glycine max

<400> 20252

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ttgagaag tcggagcaac ggcctacaga cttctgaat ctgcaaggat acattcgtt 120  
ttccatgtg cactatcgaa aaaagctga cgtgatata atgttgagga gaaactccc 180  
ttcccttga gttggttagt gacaatgcaa caagtatga accagagga catctataat 240  
tagctccgc tctggaagcat taagccaat cttttcta gaaatctat ataccctggt 300  
tctagtctgg tatttcgct tcatggacc acaagtc aa tgctacatt a 351

<210> 20253

<211> 358  
 <212> DNA  
 <213> Glycine max  
 <400> 20253

agcttatg caattgatg gctacatgag cacttaacac acaaccacta gcagccaaga 60  
 ctattagat ggaagactaa aattaagaga cgataagct tttaaatagt ggaagaact 120  
 gaactataa aatatacag aggaaccaaa attcatgaa accataaaaa tctaagctca 180  
 gaccaaatc atgataaaa aaaaagtacat gctacgttga gtaagagta tccagaaca 240  
 agcttaacaa ataacaaga tggagcacat tttaattat cttataata atgattcct 300  
 ttcttttc tttaatat tgaatgat cttatagtt ataggaagta agttaat 358

<210> 20254  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20254

taacgtgtag tegtgaata tgaaaaaat tccatttagt gactntctc agactccaac 60  
 ttttggtag ctctcagga tcaatgtcta cttaaccaagt caataacat ttaacctcc 120  
 tcttgatgc tagactgat ctcatatgag ttaattacg tcaataatc caactctca 180  
 aaccttaatt tagcactagg tgcgttca cagaatlagt agtatctgt ttaattctac 240  
 atgtgaacac tactgtgaa attcaacca cgtgaagaca tgaatgta gctagaataa 300  
 gcatccctaa ttaatcact gatataata atagatgtt gaaaagttaa tccgtcga 360  
 ggcaacctg atataaccc ttatgaataa catgatga ccgactctt ttttatata 420  
 t 421

<210> 20255  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <400> 20255

agcttgca tccgtaccc tgaatgagat gacgatatg ttctataac tgaactc 60  
 catlgtcat acaacatca tggccttga ggaataacc cgcgcaaca ttggaagaa 120

180 tctcatatg tgaagctccac catgaagccc ccaatgtcc atgatgatca catatatactg  
240 aagctgtta ctactcatl agaaggagt gcaaccgact gtagtata ccatgctacg  
264 atgaacgtca ccagctcgga tgac

<210> 20256  
<211> 232  
<212> DNA  
<213> Glycine max

<400> 20256

60 tgaatgtg gagaactaca caggcgatcg agctatatl ctagaaggag cccaatcgg  
120 gactgactg tacttagagc tgtgggaggt atcatatgca tatgaagccc tgcagagaca  
180 gacatctaca gactagtga taaaggagc gacagagata caactatlt tcaagaaact  
232 gtgaatgtcc taagaacta tactgtctlt cagggtctct tcatgtatg ga

<210> 20257  
<211> 370  
<212> DNA  
<213> Glycine max

<400> 20257

60 ttagctgca cactcaagg gacatctcac ctatatctlt atgaaaaact atcatgraca  
120 tctgtccatt acacaaaat aacaccatct aagcaactt aactgagtag agactagtct  
180 tctctctct ccatccaat atgtctctct cactcagaat caaatataa ctctaaagt  
240 catgaacctt ttltatctaa gcaattatlt atatttatlt ctctaatga tatagagatt  
300 tctccattcc catctccaca atcaattcc ctccctccgg tcaacctaaac ctaaacacct  
360 ggcctttatg gctactacaa ggttgtataa tctagtatac ttcctatatg tgaataataa  
370 gcaattcac

<210> 20258  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 20258

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 tacatcaat gacaatgaaag tatgtgtgt gggatgtgt ttgaactgaa atatactgg 120  
 cactgttct ttgaatgcaa tttttctc tagagttag tgcggtact ttagctggtg 180  
 ggtattcat ttgcacaat ataagactc tcctcgaaac ttctcaaat tctgtggtc 240  
 gcaagtgc aatgattaga atgattacc gtgatacaa ttgtgtgt agtgttgg 300  
 gcaaatgga ggaactcgtag tttcttgt tttaacta taagaatgag tttagatcaa 360  
 atgtttaac agtcaagata cactttgc aattaatag tactatatgt gatmctn 420  
 tactgtccct 430

<210> 20259  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20259

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 ttgtacagaa cctataccga caaactata aggaacttg ttatccatga gaacctacc 120  
 accaaatc ttctcatag tcacaaacca atgacctagt tgacacatat gataagagca 180  
 actgagctc agtaccact gttagaatg ttgttatagt tgrtcacca cagccagaac 240  
 caattgctt ttgtatgag aattattca aacaagagca tcaatagaat cttcttgc 300  
 ttctcttga tagtctgcc ttcaatgatn tgattcttg 340

<210> 20260  
 <211> 426  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20260

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 tctgggtatg ggtgctaga ggaatgtag aatagatgca ttgcttcaa atgtgtcaa 180  
 tccagcagtc atatggaag cttctcgat gaactaata ttctttaa tgatacttg 240

20263

60	agcttgatct taatcagc taagagcaac gcagagctca cattatcgc tcaactcct	<211>	392	DNA	<212>	<213>	Glycine max	<400>	20263
120	aaacaatcca aattttg cttctggttt tatgtcaata catcaaatc ttatgtttta	<211>	436	DNA	<212>	<213>	Glycine max	<400>	20264
180	cttgtgtcat catgtaatgc ttcctctact atgtattcca taaaacagaa aaaaaaacac	<211>	436	DNA	<212>	<213>	Glycine max	<400>	20264
240	taaaaaatga aacctaatat catcaacaac ataaccaaa atttttggct gctggttttg	<211>	436	DNA	<212>	<213>	Glycine max	<400>	20264
300	tgcccatccc ccaatttga tcttcgatga tccaatctac aaatctcccc ccgccccccc	<211>	436	DNA	<212>	<213>	Glycine max	<400>	20264
360	ataaaaatga ataagaaca gaaaataaaa gatacttcag aaaccagttc agaaagaaaa	<211>	436	DNA	<212>	<213>	Glycine max	<400>	20264
392	aagcgctaaa tgtaatatcc aatcgaaaaa tt	<211>	436	DNA	<212>	<213>	Glycine max	<400>	20264
60	tganatgagg aagtgtagaa agtgtagact tccactttt atcgttgac cacagagtga	<223>	unsure at all n locations	<223>	<400>	20264			
120	tacctggaga tatgtcgcgg gggtcaggag accttggtga cgtcaggtgg ggtgctattg	<210>	20264	DNA	<211>	<212>	<213>	Glycine max	<400>
180	cccaaaaacca agcttgacca atcccgaccc aaccgggca tagtcagtca gtgagaacct	<210>	20264	DNA	<211>	<212>	<213>	Glycine max	<400>
240	gtgatgtacc taaacagcgg agctcttggc agtcaaccga taaaagaaca aagaaccacaa	<210>	20264	DNA	<211>	<212>	<213>	Glycine max	<400>
300	agcaaggagg ctatgttgt gctggccag ctgtgaatct tgaagtatat atggatatg	<210>	20264	DNA	<211>	<212>	<213>	Glycine max	<400>
360	gcctctgta atcgattacc aagggtgggt aatcgattac aaggcttata aacgagatca	<210>	20264	DNA	<211>	<212>	<213>	Glycine max	<400>
420	ggaagctaag agggcttatg gtaatcgatt acaaggggc gtaatcgatt accagctta	<210>	20264	DNA	<211>	<212>	<213>	Glycine max	<400>
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60	agctgaagg taaactagat gccttggtta acctggtaac ccaactggcc atgaataaaa	<210>	20264	DNA	<211>	<212>	<213>	Glycine max	<400>

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 tctaataag acctctcaa cctcagcacc aaaaatcagtc acaacagaaac aattatgacc 240  
 tctccagcaa caggtacaat cccgggtgga ggaatcatcc caaccttaga tggtaaatc 300  
 ctcaacaaca atagccttat ttccagaaatg ctactggccc aagcagacca tacttcttc 360  
 caccaatcca gcagcaacaa caacaacaac aacag 395

<210> 20266  
 <211> 422  
 <212> DNA  
 <213> Glycine max

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 caatgcaaca aaattgcag catcagtgaa caatgtctct ttatacaac caaccactgc 180  
 acctctcaa gccacctct ttgtcaatc caatgagtt tactccctt accttctat 240  
 tagtccatlg gtccattta actatacag cactccaaca aacaatacca tggtagcaaa 300  
 tgggaacaag gtgtgtgtc ttccctcaa cacaagtga gaactagtga tgcaggaacac 360  
 cagcatcttc ggtgtgaaa gtcaacctc ccatctgcat ggctttaact tcttgtgtg 420  
 tg 422

<210> 20267  
 <211> 376  
 <212> DNA  
 <213> Glycine max

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 atatatcag ggaatcattc agacatccga gtaaaaagct attgcagttt gaattagctt 180  
 agagctcaa caatcaattt cgaagcgttc gatataacac gagactcaat cagacatccg 240  
 agtaaaaagt tatgtctgtt tgaattggtc cagagcttcc acattcaatc tcgagcgtgt 300

cgatatatta caggcggtcaa tcacacatcc gagtataaag ttatgtcttg ttgaattgc 360  
tcagagcttt aacatt 376

<210> 20268  
<211> 443  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20268

ctgagccaat tcaacgaca tttcttnt actcgatgt ctgattgagt cctgtaatat 60  
aacgagacgc tcgaattga atatgaaac tctgagaaa tcaaacgac aataacttt 120  
ttctcggttg ttgatltgag actcgatat taccgagacg ctgaaattg aatgttgaag 180  
ctctgagcta attcaaacga caataacgtt ttactcgat gtctgaaatga gtcccgtaatt 240  
atatcgagac gctcgaaatt gaatgttga tctctgagcc aatccaaacg acaataaat 300  
ttactcggga tgtctgatltg aggcccgtaa tatatcgaga cgctcgaaat tgaattgtgga 360  
agctctgagc aatccaac gacaataact tttaactcg atgtctgatt gaatccctgtc 420  
atatatcgag acgctcgana ttg 443

<210> 20269  
<211> 391  
<212> DNA  
<213> Glycine max  
<400> 20269

agctgttcg cattatca ctaaaagga tttaagtc caatacctca gttttccca 60  
ccaagaaaaa aatgatcat tttaagtc aacgacctaa aagagccacc ttccaagttaa 120  
aagaatcgc ttgatlcgct ctttgaag aactacgtag gtctgatattc ctctcgatg 180  
gagggtacgt aggaagcaaga gccccgcttt tgtcgacctc aaaaattaaa aagaataaaa 240  
agtttaata cataattca cacaattcta atttaagct gtatccctt ggataaatg 300  
tgagaggtgc taataccttc ctcaaacgta aatacaactc tcgaatctgg aatatcttc 360  
atgaccagtt tccttcggtt ttctcgagct t 391

<210> 20270



60	tgcatcttc aatggtgaa ggaacctcga aagctatc ttcaagcctga gttcaatctt	<210> 20272	<211> 441	<212> DNA	<213> Glycine max	<400> 20272
388	atctaataa gaatgatgta atcatgg					
360	atgatctgt ctagcatgat gtgagtgggt tcctcaataa ggaatatgta ttccatagcg					
300	tatctgtatg ggcgaacctt gaccaagca gcatatgga aaagaggga ggaatggttc					
240	caaccattg ccaagaattt cgaagacctt tccttaattt ctaattcttg ggcattgaga					
180	gaccattctt ctccatgga agaaacctt attaagata gggaatgta gggctaattc					
120	tggaatgaag cctcatat aggaatctt atggtcaat agtccatgca catrtggcag					
60	agctataaa caatgtagt tgactctaac ttatcgata actcatccat agtggaga					
		<210> 20271	<211> 388	<212> DNA	<213> Glycine max	<400> 20271
443	aaagaatta gcgaaccaatg tat					
420	aatgtgtcc taaggaatg tgatacaatt gttacactac tagaanaatg caattcacg					
360	atgcatctc cattatgca tglatttc aagtgaacgt ctaagatata ataacatata					
300	tacaattcc atgtgtcca ttcatatga tatatcat tgagtgtat gacgaagcc					
240	atatcttaa agacttaagt taaaccagt ggaatagac atgttgaga tcatatgca					
180	aagtatata taaactat ttatgtgcaa tacttaatt gcaactaagg acttcaatg					
120	acattggat tcagatgca cgtattgat tttttgta aataagat tacggtaac					
60	tgtgtctgt atgtgtgt ttccattgt gccctgttt agtattgtc ttatgtct					
		<210> 20270	<211> 443	<212> DNA	<213> Glycine max	<400> 20270

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 180  
 tggtagcag aatagtaaca tctcgaaatc ggaagcttc tctcaaggca atgggtgtg  
 240  
 gggcttaag tggagaaga atctattga ttatgagca catatagcta tggcatatat  
 300  
 ggaagcaatt actgatatc aatccaacc tcatatgag gatattatg tctgtagc  
 360  
 tgatccaggt ggtgtatat ccaataagtc agcctacaga ttatgattga ccaagcaatca  
 420  
 aattccagag gccaatct t  
 441

<210> 20273  
 <211> 257  
 <212> DNA  
 <213> Glycine max

<400> 20273

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 taggcaactac gtcgacctgt agtatcgct ctttaacgac ttgagctgga cgcggaatca  
 120  
 ctggaagtc actagaacca aacttaggt acaattggct ttgagctgt tcgaaatatag  
 180  
 ctgagccatg ttgtgtatgc catactcaca ccttgggtg gatgagcaga agtgaacatt  
 240  
 acaggtgatg gcggtg  
 257

<210> 20274  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 20274

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 120  
 gccatgattg gatataaag ctgtatcag ctctatcga ctaactctg tataaaaatc  
 180  
 attatccaac cctgttatag tcccccaat tatgttact ctgagtaaa ttttgccaat  
 240  
 aatcttgtt ttgttgagc aagcgacctc ccatctta agaaggagg gggggggcgc  
 300  
 ataaatgat ccgctcta  
 319

<210> 20275

<211> 376 DNA  
<212> Glycine max  
<213> 20275  
>400

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gatgtgaat gacgggcta ctccattcc atgcttctg tggatattat cctcatcac 180  
tcttgatgg agactggtta gaaaggtaaa ctgacaagc cactgcttc gccagaact 240  
ccttggag tctatggtg atcaagaggg ctcaaatatc ttatgaagg ggggtcgaat 300  
taattatcc taacctata ctaataaaga aatcaacttc ctaacgctt tacttaagt 360  
tgtgagagaa tatga 376

<210> 20276 410 DNA  
<212> Glycine max  
<213> 20276  
>400

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gtatgtgcaa ttaatggctc cacacaaaat ctaagttcg ctaacgagca taatcatcct 180  
aacagaatat ccatagtgac agtgaagact taatgtataa ttatccat ttttgatgt 240  
accaggtcc aaatatact tcaatgcaa ctacttatc tcccaatta gtagcaacc 300  
cgctgtcgc ccttgcccc tggctcgttc aaatgtaaca ttgatgtagc gttatagca 360  
tatcagcaca cctgcacccc gggattgggt ttatgacctt gtagtgctga 410

<210> 20277 380 DNA  
<212> Glycine max  
<213> 20277  
>400

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180 ctctcaccat gtcctgttct aatgtcgtt aacatgattc ttaaaagtt ccagcgatta  
 240 aacttgctat agaagttaca ttgatatta tatgatcaa attcctgtt cttgttcttg  
 300 aacatgaaat tgtgttgagt ctagtctct tcagtttttg tctgttaatt atttgaggtc  
 360 gaaacctaaa ccataaaatt cttaaaaaaa tataaagt gaagaaaaac tcataaatct  
 atagtgaact gttcacctat  
 380  
 60 tgaatcggac ctcaagttga aatgttatga ccaatttaatt ttcaagagag cttccgttgc  
 120 tcaatttcga acgtctctat atgtgatgcg ccttaacta acatccgtgt gaaaagtta  
 180 gaccattga atttctcaag agcttaagtt gttcaattat gagcctctcg acatatatg  
 240 cgcgcgaatc ggaatccgt ttaaaaagt aagaaccttt gtatttctcg aaagcttctc  
 300 tghttcaatt ccgaagcatct cgaatatta ttgcccga tctgaacctc gtgtgaaaag  
 360 ttatgaacct ttgaattct cgagagcttc caatgtttaa ttccgagcga ctcgatatat  
 420 tataagcatg aatcggacct tagtgaataa agttatgacc atttgaatt ctcaagagct  
 436 tccgttgatc aattt  
 <210> 20278  
 <211> 436  
 <212> DNA  
 <213> Glycine max  
 <400> 20278  
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 180 aagaatcgc tgcattagct ctttgattt agactaacat gtatgatgc tcttcttgga  
 240 cggaccgtat gagcaatagc cctgatggg tgcactctca gcaattagca tagacataaa  
 300 agttaacctt cgttatatcg cacaatctg atctaaggt gctatccctt gctataaatg  
 302 cg

<210> 20280  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
 <400> 20280  
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 cgaatgggt ttcaacgaga ggccatgat ttgtcgccg aatggactc accatatgt  
 180  
 gatatcac cactctaa ttactgtaag ttctatgaac ctatatcct atgataccc  
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 aatgttcct attaagaata ctattctaa gcatatacct tagcatctca cacatggaa  
 300  
 ttagccacat accgtcacat ctaacatag gaccataac acatacactg ctatcata  
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 403  
 <210> 20281  
 <211> 292  
 <212> DNA  
 <213> Glycine max  
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 atccgaccc aatccgggca tagacagaca atgagaacct gcatgttct taagcaacg  
 180  
 agctctgac atacaacaga tggatggaa atagaccacg gtgcaacgat gctgtg  
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 ctaagtagg ctctccctaa accctcatat atgtcagc ttacctctc ctccatgat  
 120  
 gttctcat tgtctcat gtatctgct acatgtctg tgcataata tgrtaacatg  
 180

attccttaga attacaccg attaaactg ctatagaagc tagattgac ttctatgt 240  
tcaatatct tagtcttgt ctgaaacct gaattgtgt gatttaagt tcccttgagt 300  
ttgtcttg aatttatgt gctgaaacct aaaccatata attcttaaa aaacttaaa 360  
gtcgaaaaa acccaaaa tctagagtga ctgttcacc tatgtatt ctgtcaaga 420  
agtcattgt agtcatgaca ctgtcacat 450

<210> 20283  
<211> 460  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20283

gagaacgtga nccgagcct tgatgcctt aacacactgg gcgaangcac ctggaaccg 60  
gagatccat aaagtcgacc tgtatgcat ttagctttc tactactgg gtgtctccc 120  
aaacctcaaa tgtattgcac ggtacacaa tcaactagga gatccatata ttaaaagaca 180  
gaattactct caatctgca ccttcctag atgttaata accgcgcta acaaccattt 240  
ctttaaat atagggtgt aataactga caagactat gcggccaac acttctcta 300  
tattgactg gattttaat caaacctt ctgtcccaa attcaaat gatcgcaaa 360  
tgtgttggga aataccatt agattggcg caatttgcg ccaataaaca taatcggcct 420  
tttctctc tttctctt acgaatgtc gaacaatact 460

<210> 20284  
<211> 185  
<212> DNA  
<213> Glycine max  
<400> 20284

taagatctc aaacaaggc tgatagctg gagcagagat actgtagtg actgcgctt 60  
taaggttaag cagctgcagc aaagctgaa tgaattgaa gatccatgc ctcaaccaac 120  
ttctaaccag caagtccttc agtgaagaa tattcaggct aagctatggc aataggctaa 180  
gttgc 185

<210> 20285  
<211> 368

agctcagta tcaattcg aggtctcaa tatatacgg gactcaatca gacatccgag 60  
 taaatgta tctcgggttg aattagctt gaggtcaca attcaattc gagcgcttag 120  
 atatatcgg ggaactcaatc agaatccga acagaaggtt attgtcgctt gaattatctc 180  
 agaactcat aatcaatat cgaatcgctc aatatattc gggaactcaat catacatctg 240  
 agtaaaaaag tcatgtcgtt tgaatttg tgagagctta aacatccaat tacaagcgtg 300  
 tcatctat acgggactca atcagaatc cgaattagaa gtgattgtcc gtcgaattg 360  
 ctggagc 368  
 tctagtcac cataaacctc ctcatgtga cgttcagca aacgttgcat ctgtgcatc 60  
 atcgcatcca gtaacagagc ttgaacctcg tccaactgat gataactcgtc accaccacca 120  
 cctgctccag ccataatca acagaaaaa aatgtgcaa taaaattat taagrttta 180  
 ggaactcaca acaactcatc cagtggtta actcttagat gtagtagaac tctgtttaa 240  
 tgcctcfaat atagccttct gtgtaattga tccctcttg cctttacca ctcatgttct 300  
 ctctaagt cctgtagtga ccaattaga cacacaaggt aatataaaat aaaaggaag 360  
 acaatataat gatcacaac agatttgat tgggataaca acttggaact tgatttgat 420  
 ataataatat 430  
 <210> 20286  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <400> 20286  
 agctcagta tcaattcg aggtctcaa tatatacgg gactcaatca gacatccgag 60  
 taaatgta tctcgggttg aattagctt gaggtcaca attcaattc gagcgcttag 120  
 atatatcgg ggaactcaatc agaatccga acagaaggtt attgtcgctt gaattatctc 180  
 agaactcat aatcaatat cgaatcgctc aatatattc gggaactcaat catacatctg 240  
 agtaaaaaag tcatgtcgtt tgaatttg tgagagctta aacatccaat tacaagcgtg 300  
 tcatctat acgggactca atcagaatc cgaattagaa gtgattgtcc gtcgaattg 360  
 ctggagc 368  
 tctagtcac cataaacctc ctcatgtga cgttcagca aacgttgcat ctgtgcatc 60  
 atcgcatcca gtaacagagc ttgaacctcg tccaactgat gataactcgtc accaccacca 120  
 cctgctccag ccataatca acagaaaaa aatgtgcaa taaaattat taagrttta 180  
 ggaactcaca acaactcatc cagtggtta actcttagat gtagtagaac tctgtttaa 240  
 tgcctcfaat atagccttct gtgtaattga tccctcttg cctttacca ctcatgttct 300  
 ctctaagt cctgtagtga ccaattaga cacacaaggt aatataaaat aaaaggaag 360  
 acaatataat gatcacaac agatttgat tgggataaca acttggaact tgatttgat 420  
 ataataatat 430  
 <210> 20287  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <400> 20287  
 agcttcttaag ataccgagaa agatagagct gtttgtaatt ttagtcctt gtctgtttg 60  
 atactccata ataaaatgt atatactat tatattatt tgttctaata aatcatttac 120

tattatat ttatttat gtttgcgaaa taagaaga atagaggt ttctagag 180  
 tgaatgatga gaccattcca tgcctctca attaatgt ttcatlga tctctatat 240  
 ttgtcgggt caataacata ttctgttat cagctgtga tcttatgat gatagaatt 300  
 ggctccaat ttccaatc attcatcatg atatggcaa taagatacgg attcatgctc 360  
 aaggctgca atatggcc ttgcaagt ggt 393

<210> 20288  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 20288

cttcgatc attcatgta ccgtagtgg tccacatgt gtttcgtgca ttttattct 60  
 cgtttgttt acttttata cccctctt aacgtgcta agccatttta ctraagtcat 120  
 ttctcgctta acttaaaat aataaat tccaccgaac gtttgaattg tattatcgt 180  
 taacttcgt taaataaat tccgaccgt cgtcgtacc gtaaccacgt tgaatatcaa 240  
 aaaaaggaggt aaaaaaat ataatata aaaaaacatc tttagcaaa ataagcgga 300  
 aatcaatcg gacgtttct ctttggat tctcatctt aatcgatg attaatacgg 360  
 aagtgaaac taggctaaa atcaactcg ctagtcaagc tgcgcccaa aatagctn 420  
 ttgaagtgg tcatlcaat ntccactaa g 451

<210> 20289  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <400> 20289

agctggcat tgaacataac ttctcgac ctagaacccc tcaacaatat ggagtgtg 60  
 aagaaaaaa tagtcttg gaagaattg ctgaacct attaatgat actcctctc 120  
 caaatatt ttggctgaa gccgataa ctgcatgcta tcatggaat aggccttaa 180  
 taagacccat tttaagaaa actccatg aactatcaa tggtaggaaa ccaacatct 240  
 cgcatctca tgttttgg tgcagtggt ttgtatcaa caatggaaa agaaaacta 300



ggaagtgtg atgctaagta agatgaagga atttccctg gttattcttc gcatagtaaa 360  
gctatagaa tatataataa gataacaat 389

<210> 20290  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20290

ntggaatgaa ttgttttct agcaaaaacaa attattatcac ctatagttca taagctaaa 60  
tggaaccaatc taagttttgt gctttattt gttttttgt tagctagtct ctcttaagt 120  
aatctccctt gtttttcttg aacaataggt ggcagaacgt aacaatgac ctcaattggc 180  
agacttcatt gagagcgaggt tcttgatga gcaagtaaaa ctgcaagtgt aattcatagt 240  
atggttgat ttcatagaat ataagactcc ttgaccattg tatgtaatac aatactctga 300  
actctttacg tccatanaata atgtttgtct tttaacagga tcaagaataat ataataaat 360  
aatgaatga aatagtaatt ntacacaagt aaccttacct tatcattaat ttatttctaa 420  
attctataat tggttctcaa t 441

<210> 20291  
<211> 393  
<212> DNA  
<213> Glycine max  
<400> 20291

agctataag gtgtgtcca atcggtgcc tggatgatgg ggtgtgtagt caagctctt 60  
ttgaggaat caaagcctc ttgcatctg tcattaagt caaactccac ctcccttgc 120  
aacaagtgtg acagtggaggt ggtactttt ctaaatccc ttataaagcg cctgtagaat 180  
tctgcatgac caagaaaaga tcaacacctc cgcacacaag aggggttaag caattgtgaa 240  
ataacagaaa ttttgcagg atctacttca atacccttat tggaaataat gtggcctaaa 300  
actataacct gctcaacct aaaaatgacat ttttcaaat ttgaacaag gttagtcca 360  
atgcatctat tcaaaacttt ttccaacta ttc 393

<210> 20292  
<211> 444

<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 20292

tgctctaca atctccnct tntgatgat gcaactct gaacttaga aacacacaca 60  
cacacacact tttccctagt cgtacactca cataaattc catctctccc catlgtgttt 120  
gaatttatgc ttccttaaa aataagttga ttactcatgt gatttcttga ttaattccct 180  
attctctcc ccccttgga tcaacaaaa gccaaacgtgt gtaacaatt tgaagcatatc 240  
aatatacaact aagcatccat acaatatca tgggataatt taaccacaat tatgaagcaa 300  
gaatcatgaa gcaagaacaa tgaatagatc aatatataaa tccacataga gaaaagcata 360  
tagaataacaa gcaagataat aattatcc caccattataa tagaagcata tgtgcataaa 420  
taacacataa gtcataagtc atca 444

<210> 20293  
<211> 295  
<212> DNA  
<213> Glycine max  
<400> 20293

ctgaacacgy atgatagtc agaggaagc cctccacca aatatgcaac ttcctatca 60  
agaacaaga aatatcaaa ttagtgaaa aatgaatta tagataatt attaataaa 120  
tggttccaa acaattgag tgaatagag atagtctcc atattgatgt taatatgtg 180  
ttcaagcata ataatctgy catgaacaat taatcagaca ttctaactag ctatttag 240  
tacaatttc ttatcaaac tatttcttt attcagaga tctaactg agata 295

<210> 20294  
<211> 379  
<212> DNA  
<213> Glycine max  
<400> 20294

ltggcttac aagctccga ggtgcccct tgtgagcta catttattt acgcaatatc 60  
cctacgaag ccccaaat aaggaattat cataattga aaccttatg ctctctcaga 120  
acctgaaac aagtcgaag atatcaaat aaggtcacg ggtctattca aacacatcat 180